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UNITED STATES DISTRICT COURT  
WESTERN DISTRICT OF WASHINGTON  
AT TACOMA

TWIN HARBORS WATERKEEPER,	)	
	)	
Plaintiff,	)	
v.	)	COMPLAINT
	)	
BAYVIEW REDI-MIX, INC.,	)	
	)	
Defendant.	)	
	)	
	)	

**I. INTRODUCTION**

1. This action is a citizen suit brought under Section 505 of the Clean Water Act (“CWA”) as amended, 33 U.S.C. § 1365. Plaintiff Twin Harbors Waterkeeper seeks a declaratory judgment, injunctive relief, the imposition of civil penalties, and the award of costs, including attorneys’ and expert witnesses’ fees, for Defendant Bayview Redi-Mix, Inc.’s repeated and ongoing violations of Sections 301(a) and 402 of the CWA, 33 U.S.C. §§ 1311(a) and 1342, and the terms and conditions of its National Pollutant Discharge Elimination System (“NPDES”) permit authorizing discharges of pollutants from Defendant’s Aberdeen, Washington, facility to navigable waters.

## II. JURISDICTION AND VENUE

2. The Court has subject matter jurisdiction under Section 505(a) of the CWA, 33 U.S.C. § 1365(a). The relief requested herein is authorized by 33 U.S.C. §§ 1319(d) and 1365(a).

3. Under Section 505 (b)(1)(A) of the CWA, 33 U.S.C. § 1365(b)(1)(A), Plaintiff notified Defendant of Defendant's violations of the CWA and of Plaintiff's intent to sue under the CWA by letter dated and postmarked September 8, 2020 and delivered September 10, 2020 ("Notice Letter"). A copy of the Notice Letter is attached to this complaint as Exhibit 1. The allegations in the Notice Letter are incorporated herein by this reference. Plaintiff notified Defendant's Registered Agent, the Administrator of the United States Environmental Protection Agency ("USEPA"), the Administrator of USEPA Region 10, and the Director of the Washington Department of Ecology ("WDOE") of its intent to sue Defendant by mailing copies of the Notice Letter to these officials on September 8, 2020.

4. More than sixty days have passed since the notice was served and the violations complained of in the Notice Letter are continuing or are reasonably likely to recur. Defendant is in violation of its NPDES permit and the CWA. Neither the USEPA nor the WDOE has commenced any action constituting diligent prosecution to redress these violations.

5. The source of the violations complained of is located in Grays Harbor County, Washington, within the Western District of Washington, and venue is therefore appropriate in the Western District of Washington pursuant to Section 505(c)(1) of the CWA, 33 U.S.C. § 1365(c)(1).

## III. PARTIES

6. Plaintiff, Twin Harbors Waterkeeper, is suing on behalf of itself and its member(s). Twin Harbors Waterkeeper is a non-profit corporation organized under the laws of

1 the State of Washington. Twin Harbors Waterkeeper is a membership organization and has at  
2 least one member who is injured by Defendant's violations. Twin Harbors Waterkeeper is  
3 dedicated to protecting and preserving the environment of Washington State, especially the  
4 quality of its waters.

5 7. Plaintiff has representational standing to bring this action. Twin Harbors  
6 Waterkeeper's members are reasonably concerned about the effects of discharges of pollutants,  
7 including stormwater and process water from Defendant's facility, on aquatic species and  
8 wildlife that Plaintiff's members observe, study and enjoy. Twin Harbors Waterkeeper's  
9 members are further concerned about the effect of discharges from Defendant's facility on  
10 human health. In addition, discharges from Defendant's facility lessen Twin Harbors  
11 Waterkeeper's members' aesthetic enjoyment of nearby areas. Twin Harbors Waterkeeper's  
12 members' concerns about the effects of Defendant's discharges are aggravated by Defendant's  
13 failure to record and report information about its discharges, violations and pollution controls.  
14 The recreational, economic, aesthetic and/or health interests of Twin Harbors Waterkeeper and  
15 its member(s) have been, are being, and will be adversely affected by Defendant's violations of  
16 the CWA. The relief sought in this lawsuit can redress the injuries to these interests.

17 8. Plaintiff has organizational standing to bring this action. Plaintiff has been  
18 actively engaged in a variety of educational and advocacy efforts to improve water quality and to  
19 address sources of water quality degradation in the waters of western Washington, including  
20 waterbodies downstream from Elliott Slough, including the Chehalis River and Gray's Harbor.  
21 Defendant has failed to fulfill monitoring, recordkeeping, reporting and planning requirements,  
22 among others, necessary for compliance with its NPDES permit and the CWA. As a result,  
23 Plaintiff is deprived of information necessary to properly serve its members by providing  
24 information and taking appropriate action to advance its mission. Plaintiff's efforts to educate

1 and advocate for greater environmental protection for the benefit of its members are also  
2 precluded. Finally, Plaintiff and the public are deprived of information that influences members  
3 of the public to become members of Twin Harbors Waterkeeper, thereby reducing Twin Harbors  
4 Waterkeeper's membership numbers. Thus, Plaintiff's organizational interests have been  
5 adversely affected by Defendant's violations. These injuries are fairly traceable to Defendant's  
6 violations and redressable by the Court.

7 9. Defendant is a corporation authorized to conduct business under the laws of the  
8 State of Washington.

9 10. Defendant owns and operates a facility used for stockpiling, sorting, processing  
10 and reselling various materials including concrete, rock, gravel, sand, loam, and brick located at  
11 or about 100 Hagara Road, Aberdeen, WA 98520, including contiguous or adjacent properties  
12 owned or operated by Defendant (the "facility").

#### 13 IV. LEGAL BACKGROUND

14 11. Section 301(a) of the CWA, 33 U.S.C. § 1311(a), prohibits the discharge of  
15 pollutants by any person, unless in compliance with the provisions of the CWA. Section 301(a)  
16 prohibits, inter alia, such discharges not authorized by, or in violation of, the terms of a NPDES  
17 permit issued pursuant to Section 402 of the CWA, 33 U.S.C. § 1342.

18 12. The State of Washington has established a federally approved state NPDES  
19 program administered by the WDOE. Wash. Rev. Code § 90.48.260; Wash. Admin. Code ch.  
20 173-220. This program was approved by the Administrator of the USEPA pursuant to 33 U.S.C.  
21 § 1342(b).

22 13. Pursuant to Section 402(a) of the CWA, 33 U.S.C. § 1342(a), the WDOE issued  
23 the Sand and Gravel General Permit (the "General Permit") on August 4, 2010, with an effective  
24 date of October 1, 2010, and expiration date of October 1, 2015. WDOE issued the General

1 Permit again on February 17, 2016 with an effective date of April 1, 2016 and an expiration date  
2 of March 31, 2021. The General Permit, in its various iterations since its first issuance in 1994  
3 contain comparable requirements, authorizes those that obtain coverage under the General Permit  
4 to discharge stormwater associated with industrial activities, a pollutant under the CWA, other  
5 pollutants contained in the stormwater, and some process water and mine dewatering water, to  
6 the waters of the State, including groundwater and surface waters, subject to certain terms and  
7 conditions.

8 14. The General Permit imposes certain terms and conditions on those covered  
9 thereby, including monitoring and sampling of discharges, numeric effluent limits, reporting and  
10 recordkeeping requirements. To reduce and eliminate pollutant concentrations in stormwater and  
11 process water discharges, the General Permit requires, among other things, that Permittees  
12 develop and implement best management practices (“BMPs”) and a Site Management Plan  
13 (“SMP”), which includes a Stormwater Pollution Prevention Plan (“SWPPP”), Erosion and  
14 Sediment Control Plan, Monitoring Plan, and Spill Control Plan, and apply all known and  
15 reasonable methods of prevention, control and treatment (“AKART”) to discharges. The specific  
16 terms and conditions of the General Permit are described in detail in the Notice Letter, attached  
17 hereto as Exhibit 1, and incorporated herein by this reference.

## 18 V. FACTS

19 15. In 2010, WDOE originally granted Defendant coverage under the General Permit  
20 for Defendant’s facility under Permit Number, WAG501063. This version of the General Permit  
21 expired on October 1, 2015. WDOE most recently issued Defendant coverage under the General  
22 Permit for Defendant’s facility, again under Permit Number WAG501063, on February 17, 2016  
23 with an effective date of April 1, 2016. The General Permit was then modified January 19, 2018  
24 with an effective date of April 1, 2018. The General Permit expires on March 31, 2021.

1           16.     The General Permit is an NPDES permit. Pursuant to Condition S1 of the  
2 General Permit, Defendant filed with the WDOE an Application for General Permit coverage For  
3 Process Water, Stormwater, and Mine Dewatering Water Discharges Associated with Sand and  
4 Gravel Operations, Rock Quarries, and Similar Mining Facilities, Including Stockpiles of Mined  
5 Materials, Concrete Batch Operations and Hot Mix Asphalt Operations.

6           17.     Defendant's facility is engaged in industrial activity and discharges stormwater,  
7 process water, and other pollutants to Elliott Slough and to groundwater via ditches, catch basins,  
8 pipes, ponds and/or unnamed tributaries.

9           18.     The facility is engaged in activities classified under North American Industry  
10 Classification System (NAICS) codes 327320 (Ready-Mix Concrete Manufacturing) and 327331  
11 (Concrete Block and Brick Manufacturing).

12           19.     Discharges from Defendant's facility contribute to the polluted conditions of the  
13 waters of the State, including to the impairment of Elliot Slough. Discharges from Defendant's  
14 facility contribute to the ecological impacts that result from the polluted state of these waters and  
15 to Plaintiff's and their members' injuries resulting therefrom.

16           20.     The vicinity of the facility and the receiving waters are used by the citizens of  
17 Washington and visitors, as well as at least one of Plaintiff's members, for recreational activities,  
18 including boating, biking, fishing, and nature watching. Plaintiff's member(s) also derive(s)  
19 aesthetic benefits from the receiving waters. Plaintiff's and its members' enjoyment of these  
20 activities and waters is diminished by the polluted state of the receiving waters and by  
21 Defendant's contributions to such polluted state.

22           21.     Defendant has violated the General Permit and Sections 301(a) and 402 of the  
23 CWA, 33 U.S.C. §§ 1311(a) and 1342, by discharging pollutants in violation of the General  
24 Permit. Defendant's violations of the General Permit and the CWA are set forth in full in

1 sections I through VI of the Notice Letter, attached hereto as Exhibit 1, and are incorporated  
2 herein by this reference. In particular and among the other violations described in the Notice  
3 Letter, Defendant has violated effluent limitations for turbidity and pH; failed to develop,  
4 implement, and modify a compliant SMP; failed to conduct certain discharge monitoring; failed  
5 to implement required best management practices (BMPs); discharged visible turbidity,  
6 objectional color, and oil sheen; failed to submit DMRs by the due date; failed to conduct  
7 inspections as required; and failed to conduct required reporting, including reporting permit  
8 violations and spills, as required by the General Permit.

9       22. Defendant has discharged process water containing levels of turbidity that exceed  
10 the numeric effluent limitation established in the General Permit, as specified below. Moreover,  
11 Defendant has discharged and continues to discharge process water containing levels of pH  
12 outside the range permitted by the General Permit, as specified in Table 1 and further described  
13 in section I of the Notice Letter, attached hereto as Exhibit 1 and incorporated herein by this  
14 reference. Each and every discharge with pollutant concentrations in violation of the effluent  
15 limitations identified in the General Permit constitute a separate violation of the General Permit  
16 and the CWA. Additionally, Defendant's effluent limit violations demonstrate that Defendant is  
17 failing to apply AKART to its discharges and/or is failing to implement an adequate SMP and  
18 BMPs. These requirements and violations are described in detail in section I, II, and IV of the  
19 Notice Letter, attached hereto as Exhibit 1, and are incorporated herein by this reference.

20       23. Defendant has sampled its process water discharges on May 12, 2017 and  
21 determined that such discharges contained a turbidity of 58.8 NTU, exceeding the numeric  
22 effluent limitation.

24. Defendant has sampled its process water discharges on the dates below and determined that such discharges contained pollution in amounts outside of the allowable pH range, as shown in Table 1 and as reported by Defendant to the WDOE .

**Table 1: Bayview Redi-Mix's Discharges that Exceed General Permit Numeric Effluent Limitation for pH**

Date in which sample collected (monitoring point S001)	pH effluent limitation exceedance (range: 6.5-8.5)
July 1, 2016	5.73 s.u.
October 7, 2016	5.73
March 3, 2017	9.4
December 1, 2017	9.94
February 22, 2019	9.47
December 28, 2019	9.74
January 24, 2020	9.93

25. The numeric effluent violations identified above and in Table 1 are reasonably likely to recur.

26. Defendant has not developed and/or implemented an SMP in accordance with the requirements of the General Permit. Defendant's SWPPP does not specify all of the BMPs that are necessary to provide AKART and to ensure that discharges do not cause or contribute to violations of water quality standards, and does not include all of the specific requirements of the General Permit, including certain mandatory BMPs. These SMP requirements and violations are described in detail in section IV of the Notice Letter, attached hereto as Exhibit 1, and are incorporated herein by this reference.

27. Defendant has failed to modify its SMP each time there is a violation of any numeric discharge limit, as required by the General Permit. Defendant has also failed to implement additional or modified BMPs within ten days of each numeric effluent limitation as required by the General Permit. These SMP and BMP modification requirements and violations



1 are described in detail in section I.E of the Notice Letter, which is attached hereto as Exhibit 1  
2 and incorporated herein by this reference.

3 28. Defendant has failed to comply with the Spill Control Plan, including failure to  
4 have the necessary cleanup materials available at all times, respond to spills in a timely fashion,  
5 and prevent the discharge of spilled material to waters of the state, as required by condition S9 of  
6 the General Permit. These record keeping requirements and violations are described in detail in  
7 section IV.D of the Notice Letter, which is attached hereto as Exhibit 1 and incorporated herein  
8 by this reference.

9 29. Defendant has violated the monitoring requirements in the General Permit.  
10 Defendant has failed to collect stormwater and process water samples and/or submit discharge  
11 monitoring reports every month as required by the General Permit.

12 30. Defendant failed to collect process water samples and monitor for turbidity at  
13 monitoring point S001 during the following months as required by the General Permit: January  
14 2015, February 2015, March 2015, April 2015, May 2015, June 2015, July 2015, August 2015,  
15 September 2015, October 2015, November 2015, December 2015, January 2016, February 2016,  
16 March 2016, April 2016, May 2016, June 2016, July 2016, August 2016, September 2016,  
17 November 2016, January 2017, February 2017, June 2017, July 2017, August 2017, September  
18 2017, October 2017, May 2018, June 2018, July 2018, August 2018, September 2018, March  
19 2019, April 2019, May 2019, June 2019, July 2019, August 2019, September 2019, October  
20 2019, November 2019, December 2019, April 2020, May 2020, June 2020, July 2020, August  
21 2020, and September 2020. These monitoring requirements and violations are described in  
22 section I of the Notice Letter, attached hereto as Exhibit 1, and are incorporated herein by this  
23 reference.

31. Defendant failed to collect process water samples and monitor for oil sheen at monitoring point S001 on each day when runoff occurred, as required by the General Permit, except on the following days: June 3, 2016; June 17, 2016; July 1, 2016; October 7, 2016; October 21, 2016; November 18, 2016; December 2, 2016; December 16, 2016; March 3, 2017; March 17, 2017; April 14, 2017; April 28, 2017; May 12, 2017; May 26, 2017; November 3, 2017; November 17, 2017; December 1, 2017; December 15, 2017; January 5, 2018; January 19, 2018; February 9, 2018; February 23, 2018; March 9, 2018; March 23, 2018; April 6, 2018; April 20, 2018; May 4, 2018; October 5, 2018; October 19, 2018; November 2, 2018; November 16, 2018; December 7, 2018; December 28, 2018; January 11, 2019; January 29, 2019; February 15, 2019; February 22, 2019; July 26, 2019; August 23, 2019; October 25, 2019; December 28, 2019; January 3, 2020; January 24, 2020; February 28, 2020; February 28, 2020; March 6, 2020; and March 27, 2020. These monitoring requirements and violations are described in section I of the Notice Letter, attached hereto as Exhibit 1, and are incorporated herein by this reference.

32. Defendant failed to collect process water samples and monitor for pH at monitoring point S001 during the following months as required by the General Permit: January 2015, February 2015, March 2015, April 2015, May 2015, June 2015, July 2015, August 2015, September 2015, October 2015, November 2015, December 2015, January 2016, February 2016, March 2016, April 2016, May 2016, August 2016, September 2016, January 2017, February 2017, June 2017, July 2017, August 2017, September 2017, October 2017, June 2018, July 2018, August 2018, September 2018, March 2019, April 2019, May 2019, June 2019, September 2019, November 2019, April 2020, May 2020, June 2020, July 2020, August 2020, and September 2020. These monitoring requirements and violations are described in section I of the Notice Letter, attached hereto as Exhibit 1, and are incorporated herein by this reference.

33. Defendant failed to collect stormwater samples and monitor for all parameters at monitoring point G001 during the following quarters as required by the General Permit: 1st quarter of 2015, 2nd quarter of 2015, 3rd quarter of 2015, 4th quarter of 2015, 1st quarter of 2016, 2nd quarter of 2016, 3rd quarter of 2016, 4th quarter of 2016, 1st quarter of 2017, 2nd quarter of 2017, 3rd quarter of 2017, 4th quarter of 2017, 1st quarter of 2018, 2nd quarter of 2018, 3rd quarter of 2018, 4th quarter of 2018, 1st quarter of 2019, 2nd quarter of 2019, 3rd quarter of 2019, 4th quarter of 2019, 1st quarter of 2020, 2nd quarter of 2020, and 3rd quarter of 2020. These monitoring requirements and violations are described in section I of the Notice Letter, attached hereto as Exhibit 1, and are incorporated herein by this reference.

34. Defendant has failed to analyze for all required parameters at all required times at all required monitoring points. Table 3 of the General Permit requires Defendant to monitor stormwater for pH once per month (both discharges to ground and surface waters), for turbidity twice per month (discharges to surface waters), and for oil sheen daily when runoff occurs (both discharges to ground and surface waters). Table 3 of the General Permit requires Defendant to monitor process water for pH once per month, for turbidity twice per month, for TSS quarterly, and for oil sheen daily when runoff occurs. Defendant has repeatedly failed to comply with these monitoring requirements at outfalls G001 and S001, as well as unlabeled points where stormwater leaves the site and discharges through a storm drain on the public right of way adjacent to the facility, and unlabeled points where stormwater discharges to groundwater. Defendant's monitoring violations are described in detail in section I.A-C of the Notice Letter, which is attached hereto as Exhibit 1 and incorporated herein by this reference

35. Defendant has not recorded all the sampling information for each measurement or discharge sample taken that is required by the General Permit. These record keeping

1 requirements and violations are described in detail in section I.D of the Notice Letter, which is  
2 attached hereto as Exhibit 1 and incorporated herein by this reference.

3 36. Defendant has failed to implement all BMPs required by the General Permit,  
4 including “all known, available, and reasonable methods of prevention, control and treatment”  
5 (AKART), BMPs necessary to comply with state water quality standards, and BMPs consistent  
6 with the Department of Ecology’s Stormwater Management Manual for Western Washington,  
7 among others. The BMP requirements and violations are described in detail in section II.A of  
8 the Notice Letter, which is attached hereto as Exhibit 1 and incorporated herein by this reference.

9 37. Defendant has violated the General Permit’s prohibition on discharges that cause  
10 or contribute to violations of water quality standards in receiving waters. These requirements  
11 and violations are described in detail in section II.B of the Notice Letter, which is attached hereto  
12 as Exhibit 1 and incorporated herein by this reference.

13 38. Defendant has not conducted and/or documented inspections as required by the  
14 General Permit. These inspection requirements and violations are described in detail in section  
15 III of the Notice Letter, attached hereto as Exhibit 1, and are incorporated herein by this  
16 reference.

17 39. Defendant has violated the reporting and recordkeeping requirements of the  
18 General Permit. These requirements are outlined in Condition S10 of the General Permit. These  
19 reporting and recordkeeping violations are described in detail in section V of the Notice Letter,  
20 attached hereto as Exhibit 1, and are incorporated herein by this reference. Defendant has  
21 violated the range reporting requirement for NAICS code 327320, required by condition S10.B  
22 of the General Permit. Defendant has violated the records retention requirements of condition  
23 S10.D of the General Permit. Defendant has violated the requirement to report General Permit  
24 violations and spills as required by conditions S10.E and S10.F of the General Permit.

1 Defendant has also failed to sign and certify all required reports, as required by Condition G1 of  
2 the General Permit.

3 40. Defendant has failed to submit a DMR as required by condition S10.A of the  
4 General Permit for the following quarters: 1st quarter of 2015, 2nd quarter of 2015, 3rd quarter  
5 of 2015, 4th quarter of 2015, and 1st quarter of 2016.

6 41. Defendant has failed to submit a DMR by the due date as required by condition  
7 S10.A of the General Permit for the following quarters: 2nd quarter of 2016, 3rd quarter of 2016,  
8 4th quarter of 2016, 1st quarter of 2017, 2nd quarter of 2017, 3rd quarter of 2017, 4th quarter of  
9 2017, 1st quarter of 2018, 2nd quarter of 2018, 3rd quarter of 2018, 1st quarter of 2019, 2nd  
10 quarter of 2019, 3rd quarter of 2019, 4th quarter of 2019, and 1st quarter of 2020.

11 42. A penalty should be imposed against Defendant pursuant to the penalty factors set  
12 forth in 33 U.S.C. § 1319(d). A penalty is necessary to deter future violations at the facility.

13 43. Defendant's violations of the CWA degrade the environment and the water  
14 quality of the receiving water bodies and groundwater.

15 44. Defendant's violations were avoidable had Defendant been diligent in overseeing  
16 facility operations and maintenance.

17 45. Defendant has benefited economically as a consequence of its violations and its  
18 failure to implement improvements at the facility.

19 46. Defendant is a profitable privately held business enterprise. Defendant can afford  
20 to pay a penalty. Indeed, a penalty is required to meet the deterrence goals of the Clean Water  
21 Act's penalty factors.

## 22 VI. CAUSE OF ACTION

23 47. The preceding paragraphs and the allegations in sections I through VII of the  
24 Notice Letter are incorporated herein.

48. Defendant's violations of its NPDES permit described herein and in the Notice Letter constitute violations of sections 301 and 402 of the Clean Water Act, 33 U.S.C. §§ 1311 and 1342, and violations of "effluent standard(s) or limitation(s)" as defined by section 505, 33 U.S.C. § 1365.

49. On information and belief, the violations committed by Defendant are ongoing or are reasonably likely to continue to occur. Any and all additional violations of the General Permit and the CWA which occur after those described in Plaintiff's Notice Letter but before a final decision in this action should be considered continuing violations subject to this Complaint.

50. Without the imposition of appropriate civil penalties and the issuance of an injunction, Defendant is likely to continue to violate the General Permit and the CWA to the further injury of the Plaintiff, its member(s) and others.

51. A copy of this Complaint was served upon the Attorney General of the United States and the Administrator of the USEPA as required by 33 U.S.C. § 1365(c)(3).

## VII. RELIEF REQUESTED

Wherefore, Plaintiff respectfully requests that this Court grant the following relief:

A. Issue a declaratory judgment that Defendant has violated and continues to be in violation of the General Permit and Sections 301 and 402 of the Clean Water Act, 33 U.S.C. §§ 1311 and 1342;

B. Enjoin Defendant from operating its facility in a manner that results in further violations of the General Permit or the Clean Water Act;

C. Order Defendant to immediately implement a SMP that is in compliance with the General Permit, and to provide Plaintiff with a copy of this Plan;

D. Order Defendant to allow Plaintiff to participate in the development and implementation of Defendant's SMP, including the Storm Water Pollution Prevention Plan;

1 E. Order Defendant to provide Plaintiff, for a period beginning on the date of the  
2 Court's Order and running for one year after Defendant achieves compliance with all of the  
3 conditions of the General Permit, with copies of all reports and other documents which  
4 Defendant submits to the USEPA or to the WDOE regarding Defendant's coverage under the  
5 General Permit at the time it is submitted to these authorities;

6 F. Order Defendant to take specific actions to remediate the environmental harm  
7 caused by its violations;

8 G. Order Defendant to pay civil penalties of \$37,500.00 per day of violation for each  
9 violation committed by Defendant before November 2, 2015, and \$55,800 per day of violation  
10 for each violation committed by Defendant thereafter, pursuant to Sections 309(d) and 505(a) of  
11 the CWA, 33 U.S.C. §§ 1319(d) and 1365(a), and 40 C.F.R. § 19;

12 H. Award Plaintiff its litigation expenses, including reasonable attorneys' and expert  
13 witness fees, as authorized by Section 505(d) of the CWA, 33 U.S.C. § 1365(d); and

14 I. Award such other relief as this Court deems appropriate.

15  
16 RESPECTFULLY SUBMITTED this 16th day of December 2020.

17 **SMITH & LOWNEY, PLLC**

18 By: s/ Richard Smith

Richard Smith, WSBA # 21788

19 By: s/ Meredith Crafton

Meredith Crafton, WSBA # 46558

20 By: s/ Savannah Rose

Savannah Rose, WSBA # 57062

Attorneys for Plaintiff

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**SMITH & LOWNEY, P.L.L.C.**

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SEATTLE, WASHINGTON 98112  
(206) 860-2883, FAX (206) 860-4187

September 8, 2020

**Via Certified Mail - Return Receipt Requested**

Managing Agent  
Bayview Redi-Mix, Inc.  
PO Box 165  
Aberdeen, WA 98520

**Via Certified Mail - Return Receipt Requested**

Managing Agent  
Bayview Redi-Mix, Inc.  
100 Hagara St  
Aberdeen, WA 98520

**Re: NOTICE OF INTENT TO SUE UNDER THE CLEAN WATER ACT AND  
REQUEST FOR COPY OF SITE MANAGEMENT PLAN**

Dear Managing Agent:

We represent Twin Harbors Waterkeeper, P.O. Box 751, Cosmopolis, WA 98537, (206) 293-0574. Any response or correspondence related to this matter should be directed to us at the letterhead address. This letter is to provide you with sixty days' notice of Twin Harbors Waterkeeper's intent to file a citizen suit against Bayview Redi-Mix, Inc. ("Bayview Redi-Mix") under section 505 of the Clean Water Act ("CWA"), 33 USC § 1365, for the violations described below. This letter is also a request for a copy of the complete and current site management plan ("SMP"), including all sections, required by Bayview Redi-Mix's National Pollution Discharge Elimination System ("NPDES") permit.

Bayview Redi-Mix was granted coverage effective April 1, 2016 under Washington's Sand and Gravel General Permit issued by the Washington Department of Ecology ("Ecology") became effective on April 1, 2016 and was modified on January 19, 2018 under NPDES Permit No. WAG501063 (the "2016 Permit"). Bayview Redi-Mix has been authorized to discharge pollutants to Elliot Slough under WAG501063 dating back to 1994. The previous iteration of permit WAG501063 became effective on October 1, 2010, was modified on August 17, 2011 and the modifications became effective on October 1, 2011 ("2010 Permit"). Bayview Redi-Mix's discharges had been authorized by the 2010 Permit since its effective date. The 2010 Permit expired on October 1, 2015, but continued in force and effect until the 2016 Permit was issued. The requirements in the 2010 Permit identified herein were identical or substantially identical to the requirements of the 2016 Permit, so Bayview Redi-Mix's violations of the 2010 Permit identified herein are ongoing.



Bayview Redi-Mix has violated and continues to violate the CWA (see Sections 301 and 402 of the CWA, 33 USC §§ 1311 and 1342) and the terms and conditions of the 2010 Permit and 2016 Permit (collectively, the “Permits”) with respect to operations of, and discharges of stormwater and pollutants from, its facility located at or about 100 Hagara St Aberdeen, WA 98520 (the “facility”) as described herein. The NAICS and Ecology codes applicable to the activities at the facility include 212321, 327999, ECY001 and ECY002.<sup>1</sup> See 2016 Permit, Appendix A. The facility subject to this notice includes any contiguous or adjacent properties owned or operated by Bayview Redi-Mix.

## **I. VIOLATION OF DISCHARGE MONITORING REQUIREMENTS AND EFFLUENT LIMITS.**

Condition S1.E. of the Permits requires that all discharges and activities at the facility must comply with the terms and conditions of the Permits, and Condition S2 of the Permits makes it unlawful for Bayview Redi-Mix to discharge pollutants at concentrations in excess of the discharge limits established in the Permits. See Permit Tables 2 and 3. Conditions S2 and S4 of the Permits also mandate discharge monitoring frequencies for discharges of stormwater to both surface and groundwater and mandate certain sampling and analytical procedures for the samples. See also 2016 Permit Condition S4.A, B and D; 2011 Permit Condition S4.E, F and I. The Permits establish limits for both discharges to surface waters and discharges to groundwater. See Permit Tables 2 and 3. Bayview Redi-Mix has violated and continues to violate these Permit requirements, as described below.

### **A. Violation of Turbidity Effluent Limit and Monitoring Requirements.**

Condition S2, Table 3 of the Permits imposes a maximum daily concentration limit of 50 NTU of turbidity, and an average monthly limit of 50 NTU for stormwater discharges to surface waters, and requires sampling at least twice per month. Bayview Redi-Mix has violated this effluent limitation by discharging levels of turbidity to surface waters in excess of the limit on May 12, 2017 in the amount of 58.8 NTU, this violation is reasonably likely to recur.

Bayview Redi-Mix violated this condition and failed to monitor for turbidity twice per month at monitoring point S001 in the following months: January 2015, February 2015, March 2015, April 2015, May 2015, June 2015, July 2015, August 2015, September 2015, October 2015, November 2015, December 2015, January 2016, February 2016, March 2016, April 2016, May 2016, June 2016, July 2016, August 2016, September 2016, November 2016, January 2017, February 2017, June 2017, July 2017, August 2017, September 2017, October 2017, May 2018, June 2018, July 2018, August 2018, September 2018, March 2019, April 2019, May 2019, June 2019, July 2019, August 2019, September 2019, October 2019, November 2019, December 2019, April 2020, May 2020, and June 2020. These violations continue to occur. Bayview Redi-Mix has never monitored its discharges at monitoring point G001 for turbidity. Bayview Redi-Mix has violated the turbidity monitoring requirements of Condition S2 at monitoring point G001 each month it failed to monitor.

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<sup>1</sup> 2016 Permit Condition S1.A, Table 1 identifies both NAICS codes and activities that are covered by the Permit. 327320 is the NAICS for Ready-Mix Concrete Manufacturing.

### **B. Violation of Oil Sheen Effluent Limit and Monitoring Requirements.**

Condition S2, Table 3 of the Permits prohibits the discharge of stormwater with a visible sheen to surface waters or groundwater, and requires monitoring at each monitoring point every day when runoff occurs. Bayview Redi-Mix must conduct this monitoring at surface water monitoring point S001 and groundwater monitoring point G001.

The following dates are the only days on which Bayview Redi-Mix has ever monitored its discharges at monitoring point S001 for oil sheen: June 3, 2016; June 17, 2016; July 1, 2016; October 7, 2016; October 21, 2016; November 18, 2016; December 2, 2016; December 16, 2016; March 3, 2017; March 17, 2017; April 14, 2017; April 28, 2017; May 12, 2017; May 26, 2017; November 3, 2017; November 17, 2017; December 1, 2017; December 15, 2017; January 5, 2018; January 19, 2018; February 9, 2018; February 23, 2018; March 9, 2018; March 23, 2018; April 6, 2018; April 20, 2018; May 4, 2018; October 5, 2018; October 19, 2018; November 2, 2018; November 16, 2018; December 7, 2018; December 28, 2018; January 11, 2019; January 29, 2019; February 15, 2019; February 22, 2019; July 26, 2019; August 23, 2019; October 25, 2019; December 28, 2019; January 3, 2020; January 24, 2020; February 28, 2020; February 28, 2020; March 6, 2020; and March 27, 2020. Bayview Redi-Mix has never monitored its discharges at monitoring point G001 for oil sheen. Bayview Redi-Mix has violated the oil sheen monitoring requirements of Condition S2 at each of its required monitoring points on every other day during the past five years on which there was 0.1 inches or more of precipitation. Precipitation data from that time period is appended to this notice of intent to sue and identifies these days. These violations continue to occur.

Moreover, on May 4, 2017 Ecology observed petroleum staining on the ground underneath a partially deconstructed excavator near the wetland. On information and belief, the presence of oil on the ground at the facility has caused Bayview Redi-Mix to violate the Permits' prohibition on discharges with oil sheen each and every day on which there was 0.1 inches or more of precipitation when monitoring for oil sheen did not occur. Those oily discharges continue to occur.

### **C. Violation of pH Effluent Limit and Monitoring Requirements.**

Condition S2, Table 3 of the Permits prohibits discharges to surface water or groundwater that have a pH lower than 6.5 s.u. or higher than 8.5 s.u., and requires monitoring pH levels at each monitoring point every month. Bayview Redi-Mix must conduct this monthly monitoring at surface water monitoring point S001 and groundwater monitoring point G001. Bayview Redi-Mix has violated this effluent limitation by discharging levels of pH to surface waters in excess of the limit, as identified in Table 1, below, which violations are reasonably likely to recur:

**Table 1**

	Date or reporting period of violation	Outfall	Turbidity concentration (Limit: between 6.5 and 8.5 s.u.)
1	July 1, 2016	S001	5.73 s.u.
2	October 7, 2016	S001	5.73
3	March 3, 2017	S001	9.4
4	December 1, 2017	S001	9.94
5	February 22, 2019	S001	9.47
6	December 28, 2019	S001	9.74
7	January 24, 2020	S001	9.93

Bayview Redi-Mix violated this condition and failed to monitor for pH at monitoring point S001 in the following months: January 2015, February 2015, March 2015, April 2015, May 2015, June 2015, July 2015, August 2015, September 2015, October 2015, November 2015, December 2015, January 2016, February 2016, March 2016, April 2016, May 2016, August 2016, September 2016, January 2017, February 2017, June 2017, July 2017, August 2017, September 2017, October 2017, June 2018, July 2018, August 2018, September 2018, March 2019, April 2019, May 2019, June 2019, September 2019, November 2019, April 2020, May 2020, and June 2020. These violations continue to occur. Bayview Redi-Mix has never monitored its discharges at monitoring point G001 for pH. Bayview Redi-Mix has violated the pH monitoring requirements of Condition S2 at monitoring point G001 each month it failed to monitor. These violations continue to occur.

#### **D. Violation of Sampling Recordkeeping Requirements.**

Condition S4.D.7 of the Permits requires Bayview Redi-Mix to record, for each measurement or discharge sample taken, specific information including the date, exact place, method and time of sampling; the individual who performed the sampling or measurement; the dates the analyses were performed; the individual or lab which performed the analyses; the analytical techniques or methods used; and the results of all analyses. On information and belief, Bayview Redi-Mix has violated this condition by failing to record the mandated information for each and every measurement and discharge sample it took over the past five years, and Bayview Redi-Mix continues to fail to do so.

#### **E. Violation of Site Management Plan Modification Requirements.**

2016 Permit Condition S5.C.1 and 2010 Permit Condition S5.C.3 require that whenever there is a violation of any discharge limit of Condition S2, Bayview Redi-Mix must review and modify the facility's Site Management Plan. With this review and modification, Bayview Redi-Mix must implement additional or modified BMPs as soon as practicable, but not later than 10 days after the violation, unless an extension is sought from and approved by the Department of Ecology. Bayview Redi-Mix has violated this requirement by failing to review and modify its Site Management Plan and failing to implement additional or modified BMPs as required. Bayview Redi-Mix violated this condition each and every time it violated

the discharge limits identified in Table 1, above, and the other violations described in section I of this notice of intent to sue.

## **II. VIOLATION OF ADDITIONAL DISCHARGE LIMITS.**

### **A. Violation of Best Management Practice Requirements.**

Condition S3.A of the 2016 Permit requires Bayview Redi-Mix to implement certain best management practices (BMPs) at the facility. Condition S5.C.1 and 4 of the 2010 Permit contained substantially similar requirements. These mandatory BMPs include “all known, available, and reasonable methods of prevention, control and treatment (AKART), BMPs necessary to comply with state water quality standards, BMPs consistent with the Department of Ecology’s Stormwater Management Manual for Western Washington (or provide documentation and a technical basis in its Stormwater Pollution Prevention Plan that the BMPs selected for the facility provide an equivalent level of pollution prevention compared to the manual), and Bayview Redi-Mix must inspect, maintain and repair all the BMPs to ensure continued performance of their intended function. Bayview Redi-Mix continues to fail to properly maintain the process water bays at the facility because they have an inadequate capacity to prevent overflow to the surface, which results in a direct discharge of process water from the batch plant, as documented by the May 4, 2017 Ecology facility inspection. Bayview Redi-Mix continues to fail to prevent thick sediment track-out from the facility to Hagara Street, as documented by the May 4, 2017 Ecology facility inspection; the Corrections Required form sent by Ecology to Bayview Redi-Mix dated November 7, 2017; and photographic evidence from December 12, 2019, December 17, 2019, December 21, 2019, December 31, 2019, January 6, 2020, January 18, 2020, and February 6, 2020. Bayview Redi-Mix has repeatedly violated these provisions at the facility over the past five years, and continues to do so, as evidenced by its repeated violation of the numeric effluent limitations identified in section I of this notice of intent to sue, the deficiencies documented by Ecology during its May 4, 2017 facility inspection, Corrections Required form sent by Ecology to Bayview Redi-Mix dated November 7, 2017, and photographic evidence.

### **B. Violation of Water Quality Standards and other Limits.**

Condition S3.B of the Permits prohibits discharges that cause or contribute to violations of water quality standards. Water quality standards are the foundation of the CWA and Washington’s efforts to protect clean water. In particular, water quality standards represent the U.S. Environmental Protection Agency (“EPA”) and Ecology’s determination, based on scientific studies, of the thresholds at which pollution starts to cause significant adverse effects on fish or other beneficial uses. For each water body in Washington, Ecology designates the “beneficial uses” that must be protected through the adoption of water quality standards.

A discharger must comply with both narrative and numeric criteria water quality standards. WAC 173-201A-010; WAC 173-201A-510 (“No waste discharge permit can be issued that causes or contributes to a violation of water quality criteria, except as provided for in this chapter.”). Narrative water quality standards provide legal mandates that supplement

the numeric criteria. Furthermore, the narrative water quality standard applies with equal force even if Ecology has established a numeric water quality standard.

Condition S3.G.1 of the 2016 Permit and S3.G.2 of the 2010 Permit prohibit discharges from causing a visible increase in turbidity or objectionable color; or causing visible oil sheen in the receiving surface water. Bayview Redi-Mix has violated this condition each and every day during the last five years on which there was 0.1 inch or more of precipitation, and continue to occur, as evidenced by the elevated turbidity levels indicated in section I of this notice of intent to sue, the presence of oil contamination at the facility, and the photographic evidence from December 12, 2019, December 17, 2019, December 21, 2019, December 31, 2019, and January 6, 2020, January 18, 2020, and February 6, 2020 showing turbid water coming off the site onto Hagara Street.

### **C. Violation of Site Management Plan Modification Requirements**

2016 Permit Condition S5.C.1 and 2010 Permit Condition S5.C.3 require that whenever there is a violation of these additional discharge limits of Condition S3, Bayview Redi-Mix must review and modify the facility's Site Management Plan. With this review and modification, Bayview Redi-Mix must implement additional or modified BMPs as soon as practicable, but not later than 10 days after the violation, unless an extension is sought from and approved by the Department of Ecology. Bayview Redi-Mix has violated this requirement by failing to review and modify its Site Management Plan and implement additional or modified BMPs as required each and every time it violated the discharge limits identified in section II of this notice of intent to sue.

## **III. INSPECTION VIOLATIONS.**

Condition S4.F of the 2016 Permit requires Bayview Redi-Mix to conduct a visual inspection of each point of discharge to surface water at least once a month when discharges occur. The date of the inspection, and any visible change in turbidity or color in the receiving water caused by the discharge, must be recorded and filed with the monitoring plan required by Condition S7 of the Permits. 2010 Permit Condition S4.B.3 contained substantially identical requirements. Bayview Redi-Mix has violated these conditions each and every month over the past five years by failing to conduct the required inspections altogether, and if some inspections did occur, Bayview Redi-Mix failed to record the required information and file it as required. These violations are ongoing.

2016 Permit Condition S4.F and 2010 Permit Condition S4.A also mandate additional inspections when certain equipment operates at the facility. Because the facility has at least one oil/water separator, Bayview Redi-Mix must inspect its oil/water separators at least once per month between October 1 and April 30 each year, and during and immediately after a large storm event of greater than or equal to 1 inches per 24 hours. *See* 2016 Permit Condition S4.F.2.a; 2010 Permit Condition S4.A.1. Bayview Redi-Mix has violated these conditions each and every October, November, December, January, February, March and April of each year over the past five years, and each and every day over the past five years on which there was at least 1 inch of precipitation. Precipitation data from that time period is

appended to this notice of intent to sue and identifies these days. These violations are ongoing.

2016 Permit Condition S4.F.2.a. and 2010 Permit Condition S4.A.1 further require Bayview Redi-Mix to remove accumulated oil from the oil/water separators when it reaches a thickness of 1 inch and must remove the bottom sludge when it reaches a thickness of 6 inches. Bayview Redi-Mix has repeatedly violated this provision by failing to remove the oil and sludge, as required, and continues to do so.

2016 Permit Conditions S4.F.2.b, c & d and 2010 Permit Conditions S4.A.2 and S4.E require Bayview Redi-Mix to inspect all operationally related equipment and vehicles weekly for leaking fluids such as oil, hydraulic fluid, antifreeze, etc., and if oil sheen is present, it must clean up the source and report the event on the inspection form identifying the probable cause of the oil sheen and describing the actions taken to prevent further contamination. Bayview Redi-Mix has repeatedly violated these provisions by failing to conduct the inspections as required, failing to timely clean up the source of the leaks, and failing to report the event as required. These violations are evidenced by the oil stain and leaky partially deconstructed excavator near the wetland that Ecology observed at the facility on May 4, 2017, and are ongoing.

2016 Permit Condition S4.F.3 and 2010 Permit Condition S4.F requires Bayview Redi-Mix to conduct at least two stormwater inspections each year at the facility; at least one between October 1 and April 30 (the wet season) and at least one between May 1 and September 30 (the dry season), with certain requirements and conditions specified for each season's inspection. Bayview Redi-Mix has violated these conditions each wet and dry season each year over the past five years, and continues to do so.

In addition to the specific inspection requirements outlined above, 2016 Permit Condition S4.G and 2010 Permit Condition S4.F.4 require Bayview Redi-Mix to prepare and retain a report on each inspection. Those inspection reports must include a summary of the inspection, the names of personnel that conducted the inspection, the date(s) of the inspection, observations relating to the implementation of the SMP, any action taken as a result of the inspection, and any corrective actions or maintenance tasks needed. Under these conditions, the responsible party must sign the reports in accordance with the Permits' General Condition G1 and must certify that Bayview Redi-Mix has investigated the discharge of stormwater for the presence of non-stormwater. Bayview Redi-Mix is in violation of these conditions for failing to prepare any inspection reports with all the required elements for any of the required inspections identified in this notice of intent to sue. These violations are ongoing.

#### **IV. SITE MANAGEMENT PLAN VIOLATIONS.**

Condition S5 of the Permits require Bayview Redi-Mix to develop and implement a Site Management Plan (SMP), as specified. The required SMP must contain a site map, an Erosion and Sediment Control Plan (ESCP), a Monitoring Plan, a Stormwater Pollution Prevention Plan (SWPPP) and a Spill Control Plan with certain requirements.



### **A. Site Map Violations.**

2016 Permit Condition S5.D and 2010 Permit Conditions S5.B.1.c & d and S5.C.5.a impose requirements for Bayview Redi-Mix's site map. The site map must show the scale, or include relative distances between significant structures and drainage systems. Bayview Redi-Mix violates this requirement because the facility site map does not provide this information.

2016 Permit Condition S5.D.2 and S5.B.1.c & d require that the site map assign a unique identifier to each outfall and monitoring point, which Bayview Redi-Mix must use on its Discharge Monitoring Reports (DMRs), show the drainage area for each point, label the types of discharges that occur at each point and label whether the discharge is to surface water or groundwater. 2016 Permit Condition S5.D.3 and S5.C.5.a require that the site map show drainage direction, flow paths, ditches, ponding areas, and discharge structures, nearby on-site surface water bodies (including known and underlying aquifers), and lands adjacent to the site where helpful in identifying discharge points or drainage routes. 2016 Permit Condition S5.D.4 and S5.C.5.a require the site map to show paved areas and buildings, vehicle and equipment cleaning or washout areas, vehicle and equipment maintenance areas, outdoor storage areas of materials or products, outdoor processing areas, locations of loading and unloading dry bulk materials or liquids, on-site waste treatment, storage or disposal areas, and underground storage areas of materials or products. Bayview Redi-Mix is in violation of these provisions because the facility SMP does not include a site map with all these required details.

The facility site map does not show each outfall, does not provide unique identifiers to each outfall, does not show the drainage area for each discharge point, does not show complete flow paths and stormwater structures, does not provide nearby surface water bodies or adjacent lands to help identify drainage routes, does not show all paved areas, does not show vehicle and equipment cleaning, washout and maintenance areas, and does not adequately identify areas of each industrial activity. In addition, the site map is confusing, lacks clarity and contains notations that are unclear and undefined by a complete map legend. Moreover, the site map does not indicate the relationship between the different portions of the facility, how stormwater flows among and between the two areas, and where they are located relative to one another. These violations have occurred each and every day over the past five years and continue to occur.

### **B. Monitoring Plan Violations.**

2016 Permit Condition S7 and 2010 Permit Condition S5.B provide the requirements for the monitoring plan in the facility's SMP. Under these conditions, Bayview Redi-Mix must maintain and comply with a monitoring plan developed in accordance with Permit Conditions S2 and S3. At a minimum, the plan must identify all the industrial activities at the site and include the NAICS/Ecology codes associated with each monitoring point, include all of the applicable parameters and monitoring frequencies identified in the Permits as monitoring requirements, identify enough monitoring points to provide representative sampling of all point source discharges to surface water or groundwater, list the standard

procedures for collecting samples for analysis which must comply with identified guidance documents, and list non-compliance notification procedures and contact numbers. Bayview Redi-Mix has violated these conditions each and every day over the past five years because its facility SMP does not contain a monitoring plan that conforms to these requirements.

Section I to this notice of intent to sue, above, identifies many instances of Bayview Redi-Mix's failure to collect samples and analyze them for oil sheen, pH, and turbidity parameters applicable to the facility. The failure to prepare and maintain a monitoring plan that requires monthly samples for pH, twice monthly samples for turbidity, and daily monitoring for oil sheen are separate violations, in addition to the violations related to Bayview Redi-Mix's failure to collect those samples at the required frequencies and locations. Moreover, on formation and belief, Bayview Redi-Mix's monitoring plan does not identify all the industrial activities at the site or include the NAICS/Ecology codes associated with each monitoring point. The monitoring plan also does not identify enough monitoring points to provide representative sampling of all point source discharges to surface water or groundwater, and does not list standard procedures for collecting the samples that comply with the identified guidance documents. Finally, Bayview Redi-Mix's monitoring plan does not list non-compliance notification procedures and contact numbers, as required. All these deficiencies indicate that Bayview Redi-Mix does not maintain a compliant monitoring plan, constituting a daily violation of the Permits that are ongoing.

In addition, Bayview Redi-Mix is in daily violation of 2016 Permit Condition S8.E.12 and 2010 Permit Condition S5.C.5.f.13 because persistent sediment track-out from the facility to Hagara Street is evident and the monitoring plan does not include monitoring discharges to the ditch conveyance to Elliot Slough along Hagara Street, discharges that must be subjected to the Permit limits for turbidity found in Condition S2. These violations are ongoing.

### **C. Stormwater Pollution Prevention Plan Violations.**

2016 Permit Condition S8 and 2010 Permit Condition S5.C provide the requirements for Bayview Redi-Mix's Stormwater Pollution Prevention Plan (SWPPP) development and implementation. Bayview Redi-Mix's SWPPP does not comply with 2016 Permit Condition S8.E and 2010 Permit Condition S5.C.5.f because it does not include mandatory source control BMPs. On information and belief, Bayview Redi-Mix's SWPPP does not require that all chemical liquids, fluids and petroleum products be stored in double-walled tanks or in secondary containment as specified, labelling containers, fully draining and capping empty containers and minimizing the number of empty containers on site, fitting all dumpsters containing leachable materials with a lid that must remain closed when not in use, locating spill kits at all stationary fueling stations, fuel transfer stations, mobile fueling units and used oil storage/transfer stations, using drip pans or equivalent during all petroleum transfer operations, and conducting vehicle and equipment cleaning operations as specified. For example, on May 4, 2017 Ecology observed a partially deconstructed excavator near the wetlands with petroleum staining beneath it. On information and belief, Bayview Redi-Mix's SWPPP also does not require that all vehicle and equipment cleaning operations be done under cover or in a bermed area to prevent commingling of wash water and stormwater.



On information and belief, Bayview Redi-Mix's SWPPP does not require storing unhardened concrete, concrete solids, returned asphalt and cold mix asphalt on a bermed impervious surface, storing lead acid batteries under cover, prevention of leaks from leaking equipment, and management of sediment track-out to paved off-site roads as specified. On information and belief, Bayview Redi-Mix's SWPPP does not require the use of source control BMPs as necessary to control pollutants at fueling stations at the facility, loading and unloading areas, storage of liquid in above ground storage tanks, during dust control activities, at high use parking areas, and during storage or transfer of solid raw materials, by-products or finished products.

#### **D. Spill Control Plan Violations**

2016 Permit Condition S9 and 2010 Permit Condition S5.D require Bayview Redi-Mix to maintain and comply with a Spill Control Plan for the prevention, containment, control and cleanup of spills or unplanned discharges of oil and petroleum products, designated Dangerous or Extremely Dangerous Waste and other polluting materials. Bayview Redi-Mix has spilled oil and petroleum products outside at the facility in violation of these requirements, as indicated by Ecology's observations of the facility on May 4, 2017.

2016 Permit Condition S9.B and 2010 Permit Condition S5.D.2 require Bayview Redi-Mix to review and update the Spill Control Plan at least annually, and more frequently when needed. Bayview Redi-Mix has violated these provisions at least annually by not completing a review and update to the plan as required.

Bayview Redi-Mix also fails to satisfy the requirements of 2016 Permit Condition S9.B and 2010 Permit Condition S5.D.2 because the Spill Control Plan does not include a description of the reporting system which will be used to alert responsible managers and legal authorities in the event of a spill, a list of equipment and materials on site that have the potential to leak or spill, a description of preventative measures and facilities (including an overall facility plot showing drainage patterns) which prevent, contain or treat spills, and specific handling procedures and storage requirements for materials kept on site.

Finally, Bayview Redi-Mix fails to satisfy the requirements of 2016 Permit Condition S9.C and 2010 Permit Condition S5.D.3 because Bayview Redi-Mix does not have the necessary cleanup materials available at all times, does not respond to all spills in a timely fashion, and does not prevent the discharge of spilled material to waters of the state. Bayview Redi-Mix further violates these provisions because it does not provide appropriate training to all employees to assure all spills are reported and responded to appropriately, and Bayview Redi-Mix does not immediately clean up all spills, leaks, and contaminated soil to prevent the discharge of pollutant to groundwater or surface waters. For example, on May 4, 2017 Ecology observed petroleum staining on the ground, an inadequate capacity of the process water bays to prevent overflow to the surface, and an upset with the process water return line. These violations are ongoing.

## **V. REPORTING AND RECORDKEEPING VIOLATIONS.**

### **A. Failure to Submit Complete and Timely DMRs**

2016 Permit Condition S10.A and 2010 Permit Condition S6.A provide the requirements for Bayview Redi-Mix's DMRs. Bayview Redi-Mix must submit a DMR on a quarterly basis on or before April 30 for the first quarter, July 30 for the second quarter, October 30 for the third quarter, and January 30 for the fourth quarter. Bayview Redi-Mix does not comply with the DMR reporting requirements because it failed and continues to fail to submit a DMR for the first quarter of 2015, the second quarter of 2015, the third quarter of 2015, the fourth quarter of 2015, and the first quarter of 2016. Bayview Redi-Mix also failed to submit the DMR by the due date for the second quarter of 2016, third quarter of 2016, fourth quarter of 2016, first quarter of 2017, second quarter of 2017, third quarter of 2017, fourth quarter of 2017, first quarter of 2018, second quarter of 2018, third quarter of 2018, first quarter of 2019, second quarter of 2019, third quarter of 2019, fourth quarter of 2019, and first quarter of 2020. These violations are ongoing

### **B. Failure to Complete Range Reporting.**

Because the facility has a NAICS code of 327320, Under 2016 Permit Condition S10.B Bayview Redi-Mix must annually report which asphalt and/or concrete production range applied to the facility for the previous year. The first deadline for this reporting was on January 30, 2017. Bayview Redi-Mix has failed to timely provide this report each year as required by 2016 Permit Condition S10.B. These violations are ongoing.

### **C. Failure to Retain Records.**

2016 Permit Condition S.10.D requires Bayview Redi-Mix to retain records on site or within reasonable access of the site. These records include the 2016 Permit, Bayview Redi-Mix's Permit coverage page, the SMP, all specified monitoring information from the past five years, and all required reports and data records from the past three years. 2010 Permit Condition S6.C contained substantially similar requirements. Bayview Redi-Mix has failed to retain any of these records as required, violations that are ongoing and occur every day.

### **D. Failure to Report Permit Violations.**

2016 Permit Condition S10.E and 2010 Permit Condition S6.E require Bayview Redi-Mix to take certain actions each time it violates any terms of the Permits. In the event of a Permit violation, Bayview Redi-Mix must immediately take action to stop, contain, and cleanup unauthorized discharges or otherwise stop the violation, correct the problem and, if applicable, repeat sampling and analysis of any violation immediately. Bayview Redi-Mix must also notify the Ecology Regional Sand and Gravel Permit Manager by phone or in person within 24 hours of when Bayview Redi-Mix becomes aware of the circumstances of the violation. And within 30 days of any violation (five days for upsets, spills and bypasses), Bayview Redi-Mix must submit a detailed report to Ecology describing the nature of the violation, correction action taken and/or planned, steps to be taken to prevent recurrence,

results of the re-sampling and any other pertinent information. Bayview Redi-Mix has failed to follow these reporting requirements at any time, which is required for each and every Permit violation addressed in this notice of intent to sue. Bayview Redi-Mix's persistent violations of these reporting requirements are ongoing.

#### **E. Failure to Report Spills.**

2016 Permit Condition S10.F requires Bayview Redi-Mix to report all spills of oil or hazardous materials in accordance with statutory and regulatory requirements identified in the Permit by calling the National Response Center and the Washington Emergency Management Division. 2010 Permit Condition S6.F required Bayview Redi-Mix to report all spills in the same manner as reporting permit violations, as discussed above. Bayview Redi-Mix has violated these conditions because it spilled oil and petroleum products at the facility, but has never reported it as required. Ecology also observed a ruptured hose spill un-treated process water into the grassy area at the facility on May 4, 2017, but has never reported it as required.

#### **F. Failure to Properly Sign and Certify Reports.**

General Condition G1 of the Permits mandates that all reports required by the Permits and other information requested by Ecology must be signed and certified by a "responsible corporate officer," a defined term, or a duly authorized representative of a responsible corporate officer who is authorized pursuant to defined procedures. Bayview Redi-Mix has not properly signed and certified any of the reports required by the Permits, which constitute additional violations of the Permits.

### **VI. REQUEST FOR SMP**

Pursuant to 2016 Permit Condition S10.D.4, Twin Harbors Waterkeeper hereby requests that Bayview Redi-Mix, Inc. provide a copy of its SMP complete with all incorporated plans and reports. The copy of the SMP and any other communications about this request should be directed to the undersigned at the letterhead address.

Should Bayview Redi-Mix fail to provide the requested complete copy of its SMP as required by 2016 Permit Condition S10.D.4, it will be in violation of that condition, which violation shall also be subject to this notice of intent to sue and any ensuing lawsuit.

### **VII. CONCLUSION.**

The above-described violations reflect those indicated by the information currently available to Twin Harbors Waterkeeper. These violations are ongoing. Twin Harbors Waterkeeper intends to sue for all violations, including those yet to be uncovered and those committed after the date of this Notice of Intent to Sue.

Under Section 309(d) of the CWA, 33 USC § 1319(d), each of the above-described violations subjects the violator to a penalty of up to \$37,500 per day for each violation before November 2, 2015, and \$55,800 per day for each violation thereafter. In addition to civil

penalties, Twin Harbors Waterkeeper will seek injunctive relief to prevent further violations under Sections 505(a) and (d) of the CWA, 33 USC § 1365(a) and (d), and such other relief as is permitted by law. Also, Section 505(d) of the CWA, 33 USC § 1365(d), permits prevailing parties to recover costs, including attorney's fees.

Twin Harbors Waterkeeper believes that this NOTICE OF INTENT TO SUE sufficiently states grounds for filing suit. We intend, at the close of the 60-day notice period, or shortly thereafter, to file a citizen suit against Bayview Redi-Mix, Inc. under Section 505(a) of the Clean Water Act for violations.

During the 60-day notice period, we would be willing to discuss effective remedies for the violations addressed in this letter and settlement terms. If you wish to pursue such discussions in the absence of litigation, we suggest that you initiate those discussions within 10 days of receiving this notice so that a meeting can be arranged and so that negotiations may be completed promptly. We do not intend to delay the filing of a complaint if discussions are continuing when the notice period ends.

Sincerely,

**SMITH & LOWNEY, PLLC**

By: s/Richard Smith  
Richard Smith  
Meredith Crafton

cc: Andrew Wheeler, Administrator, U.S. EPA  
Chris Hladick, Region 10 Administrator, U.S. EPA  
Laura Watson, Director, Washington Department of Ecology  
Bayview Redi Mix, Inc., Registered Agent (PO Box 165, Aberdeen, WA, 98520)

## Precipitation data for Aberdeen, WA US Station, USC00450008

Date	Inches	Date	Inches	Date	Inches	Date	Inches
1/1/15	0	1/29/15	0	2/26/15	0.18	3/26/15	0.91
1/2/15	0	1/30/15	0.01	2/27/15	0.53	3/27/15	0
1/3/15	0.01	1/31/15	0	2/28/15	0.01	3/28/15	0.47
1/4/15	0.23	2/1/15	0	3/1/15	0	3/29/15	0.05
1/5/15	8.57	2/2/15	0.46	3/2/15	0.07	3/30/15	0.01
1/6/15	0.1	2/3/15	0.37	3/3/15	0	3/31/15	0.27
1/7/15	0.01	2/4/15	0.16	3/4/15	0	4/1/15	0.02
1/8/15	0	2/5/15	1.1	3/5/15	0	4/2/15	0.01
1/9/15	0	2/6/15	2.13	3/6/15	0	4/3/15	0
1/10/15	0.11	2/7/15	1.4	3/7/15	0	4/4/15	0.25
1/11/15	0.05	2/8/15	0.58	3/8/15	0	4/5/15	0
1/12/15	0.02	2/9/15	0.61	3/9/15	0	4/6/15	0.05
1/13/15	0	2/10/15	0.28	3/10/15	0	4/7/15	0
1/14/15	0	2/11/15	0	3/11/15	0.11	4/8/15	0
1/15/15	0	2/12/15	0.2	3/12/15	0.42	4/9/15	0.01
1/16/15	0.58	2/13/15	0	3/13/15	0	4/10/15	0
1/17/15	0.05	2/14/15	0.01	3/14/15	1.25	4/11/15	1.1
1/18/15	1.76	2/15/15	0	3/15/15	0.75	4/12/15	0.27
1/19/15	0.16	2/16/15	0	3/16/15	1.74	4/13/15	0.14
1/20/15	0.01	2/17/15	0	3/17/15	0	4/14/15	0.58
1/21/15	0	2/18/15	0	3/18/15	0.01	4/15/15	0.11
1/22/15	0.17	2/19/15	0.06	3/19/15	0	4/16/15	0
1/23/15	0.06	2/20/15	0.14	3/20/15	0.01	4/17/15	0
1/24/15	1.21	2/21/15	0	3/21/15	0.54	4/18/15	0
1/25/15	0.13	2/22/15	0	3/22/15	0.19	4/19/15	0
1/26/15	0	2/23/15	0	3/23/15	0.35	4/20/15	0
1/27/15	0.01	2/24/15	0	3/24/15	0.68	4/21/15	0
1/28/15	0	2/25/15	0.11	3/25/15	0.63	4/22/15	0.03

## Precipitation data for Aberdeen, WA US Station, USC00450008

Date	Inches	Date	Inches	Date	Inches	Date	Inches
4/23/15	0	5/21/15	0	6/18/15	0	7/16/15	0
4/24/15	0.28	5/22/15	0	6/19/15	0.01	7/17/15	0
4/25/15	0.18	5/23/15	0.01	6/20/15	0	7/18/15	0
4/26/15	0	5/24/15	0.01	6/21/15	0	7/19/15	0
4/27/15	0.15	5/25/15	0	6/22/15	0	7/20/15	0
4/28/15	0.05	5/26/15	0.01	6/23/15	0	7/21/15	0
4/29/15	0.03	5/27/15	0	6/24/15	0	7/22/15	0
4/30/15	0	5/28/15	0	6/25/15	0	7/23/15	0
5/1/15	0	5/29/15	0	6/26/15	0	7/24/15	0
5/2/15	0	5/30/15	0	6/27/15	0	7/25/15	0.08
5/3/15	0	5/31/15	0	6/28/15	0	7/26/15	0.14
5/4/15	0	6/1/15	0.01	6/29/15	0	7/27/15	0.01
5/5/15	0.18	6/2/15	0.22	6/30/15	0	7/28/15	0
5/6/15	0.04	6/3/15	0.01	7/1/15	0	7/29/15	0
5/7/15	0.07	6/4/15	0.01	7/2/15	0	7/30/15	0
5/8/15	0	6/5/15	0	7/3/15	0	7/31/15	0
5/9/15	0	6/6/15	0	7/4/15	0	8/1/15	0
5/10/15	0	6/7/15	0	7/5/15	0	8/2/15	0
5/11/15	0	6/8/15	0	7/6/15	0	8/3/15	0
5/12/15	0.01	6/9/15	0	7/7/15	0	8/4/15	0
5/13/15	0.05	6/10/15	0	7/8/15	0	8/5/15	0
5/14/15	0.03	6/11/15	0	7/9/15	0	8/6/15	0.01
5/15/15	0	6/12/15	0	7/10/15	0	8/7/15	0
5/16/15	0	6/13/15	0	7/11/15	0.02	8/8/15	0.01
5/17/15	0	6/14/15	0	7/12/15	0.16	8/9/15	0
5/18/15	0	6/15/15	0	7/13/15	0.01	8/10/15	0
5/19/15	0	6/16/15	0	7/14/15	0	8/11/15	0
5/20/15	0	6/17/15	0	7/15/15	0	8/12/15	0

## Precipitation data for Aberdeen, WA US Station, USC00450008

Date	Inches	Date	Inches	Date	Inches	Date	Inches
8/13/15	0	9/10/15	0	10/8/15	0.36	11/5/15	0.26
8/14/15	0	9/11/15	0	10/9/15	0	11/6/15	0.1
8/15/15	0.03	9/12/15	0	10/10/15	0.3	11/7/15	0.2
8/16/15	0	9/13/15	0	10/11/15	1.18	11/8/15	0.83
8/17/15	0	9/14/15	0	10/12/15	0	11/9/15	0.16
8/18/15	0	9/15/15	0	10/13/15	0.01	11/10/15	0.06
8/19/15	0	9/16/15	0.01	10/14/15	0	11/11/15	0.51
8/20/15	0	9/17/15	0.87	10/15/15	0	11/12/15	0.05
8/21/15	0	9/18/15	0	10/16/15	0	11/13/15	2.83
8/22/15	0	9/19/15	0.01	10/17/15	0.02	11/14/15	1.76
8/23/15	0	9/20/15	0.2	10/18/15	0	11/15/15	1.39
8/24/15	0	9/21/15	0.24	10/19/15	0.14	11/16/15	0.1
8/25/15	0	9/22/15	0	10/20/15	0.07	11/17/15	2.22
8/26/15	0	9/23/15	0	10/21/15	0	11/18/15	1.08
8/27/15	0	9/24/15	0	10/22/15	0.01	11/19/15	0.24
8/28/15	0.17	9/25/15	0.1	10/23/15	0	11/20/15	0
8/29/15	0.35	9/26/15	0.01	10/24/15	0	11/21/15	0
8/30/15	1.81	9/27/15	0	10/25/15	0.01	11/22/15	0
8/31/15	0.22	9/28/15	0	10/26/15	1.6	11/23/15	0
9/1/15	0.56	9/29/15	0	10/27/15	0.01	11/24/15	0.12
9/2/15	0.11	9/30/15	0	10/28/15	0.31	11/25/15	0
9/3/15	0.01	10/1/15	0	10/29/15	0.38	11/26/15	0
9/4/15	0.17	10/2/15	0	10/30/15	0.98	11/27/15	0
9/5/15	0.01	10/3/15	0	10/31/15	1.92	11/28/15	0
9/6/15	0.15	10/4/15	0	11/1/15	1.67	11/29/15	0
9/7/15	0.25	10/5/15	0	11/2/15	2	11/30/15	0
9/8/15	0.01	10/6/15	0	11/3/15	0	12/1/15	0.04
9/9/15	0	10/7/15	0.3	11/4/15	0	12/2/15	0.67

## Precipitation data for Aberdeen, WA US Station, USC00450008

Date	Inches	Date	Inches	Date	Inches	Date	Inches
12/3/15	0.92	12/31/15	0	1/28/16	2.6	2/25/16	0
12/4/15	0.81	1/1/16	0	1/29/16	0.52	2/26/16	0
12/5/15	0.43	1/2/16	0	1/30/16	0.59	2/27/16	0.4
12/6/15	1.61	1/3/16	0	1/31/16	0.43	2/28/16	0.21
12/7/15	0.83	1/4/16	0.04	2/1/16	0.1	2/29/16	0.43
12/8/15	1.79	1/5/16	0.1	2/2/16	0.16	3/1/16	1.43
12/9/15	3.04	1/6/16	0.18	2/3/16	0.03	3/2/16	2
12/10/15	0.66	1/7/16	0.04	2/4/16	0.93	3/3/16	0.94
12/11/15	0.58	1/8/16	0	2/5/16	0.11	3/4/16	0.33
12/12/15	0.67	1/9/16	0.01	2/6/16	0.83	3/5/16	0.74
12/13/15	1.19	1/10/16	0.02	2/7/16	0	3/6/16	0.79
12/14/15	0.12	1/11/16	0.06	2/8/16	0	3/7/16	1.12
12/15/15	0.02	1/12/16	0.57	2/9/16	0	3/8/16	0.28
12/16/15	0.21	1/13/16	1.57	2/10/16	0	3/9/16	0.19
12/17/15	0.69	1/14/16	0.1	2/11/16	0.12	3/10/16	3.42
12/18/15	1.71	1/15/16	0.07	2/12/16	0.94	3/11/16	0.12
12/19/15	0.28	1/16/16	1.08	2/13/16	0.24	3/12/16	0.86
12/20/15	1.26	1/17/16	0.88	2/14/16	1.81	3/13/16	1.16
12/21/15	0.82	1/18/16	0.39	2/15/16	0.67	3/14/16	0.85
12/22/15	0.53	1/19/16	0.41	2/16/16	1.02	3/15/16	0.57
12/23/15	0.99	1/20/16	0.6	2/17/16	0.01	3/16/16	0.1
12/24/15	0.57	1/21/16	2.32	2/18/16	0.19	3/17/16	0
12/25/15	0.08	1/22/16	3.43	2/19/16	0.83	3/18/16	0
12/26/15	0.01	1/23/16	0.1	2/20/16	0.53	3/19/16	0
12/27/15	0.19	1/24/16	0.18	2/21/16	0	3/20/16	0
12/28/15	0.3	1/25/16	0	2/22/16	0.45	3/21/16	0.69
12/29/15	0	1/26/16	0.24	2/23/16	0	3/22/16	0.45
12/30/15	0	1/27/16	0.62	2/24/16	0	3/23/16	0.07



## Precipitation data for Aberdeen, WA US Station, USC00450008

Date	Inches	Date	Inches	Date	Inches	Date	Inches
3/24/16	0.89	4/21/16	0	5/19/16	0.03	6/16/16	0.01
3/25/16	0.2	4/22/16	0.28	5/20/16	0.15	6/17/16	0.08
3/26/16	0	4/23/16	0	5/21/16	0	6/18/16	0.01
3/27/16	0.32	4/24/16	0.7	5/22/16	0.04	6/19/16	0
3/28/16	0.11	4/25/16	0.02	5/23/16	0.02	6/20/16	0
3/29/16	0	4/26/16	0	5/24/16	0	6/21/16	0
3/30/16	0	4/27/16	0	5/25/16	0	6/22/16	0
3/31/16	0	4/28/16	0	5/26/16	0	6/23/16	0.31
4/1/16	0	4/29/16	0	5/27/16	0.03	6/24/16	0.39
4/2/16	0	4/30/16	0	5/28/16	0.23	6/25/16	0.42
4/3/16	0	5/1/16	0	5/29/16	0.51	6/26/16	0
4/4/16	0.46	5/2/16	0	5/30/16	0	6/27/16	0
4/5/16	0.18	5/3/16	0.04	5/31/16	0	6/28/16	0
4/6/16	0.01	5/4/16	0.01	6/1/16	0	6/29/16	0
4/7/16	0	5/5/16	0	6/2/16	0.2	6/30/16	0
4/8/16	0	5/6/16	0	6/3/16	0.01	7/1/16	0
4/9/16	0	5/7/16	0	6/4/16	0	7/2/16	0
4/10/16	0	5/8/16	0	6/5/16	0	7/3/16	0.02
4/11/16	0	5/9/16	0	6/6/16	0	7/4/16	0
4/12/16	0.03	5/10/16	0	6/7/16	0	7/5/16	0
4/13/16	0.58	5/11/16	0	6/8/16	0	7/6/16	0
4/14/16	0.47	5/12/16	0	6/9/16	0	7/7/16	0
4/15/16	0	5/13/16	0	6/10/16	0.29	7/8/16	0.17
4/16/16	0	5/14/16	0.06	6/11/16	0.62	7/9/16	0.04
4/17/16	0	5/15/16	0.02	6/12/16	0.01	7/10/16	0.22
4/18/16	0	5/16/16	0	6/13/16	0.01	7/11/16	0.03
4/19/16	0	5/17/16	0	6/14/16	0.5	7/12/16	0
4/20/16	0	5/18/16	0	6/15/16	0.28	7/13/16	0

## Precipitation data for Aberdeen, WA US Station, USC00450008

Date	Inches	Date	Inches	Date	Inches	Date	Inches
7/14/16	0	8/11/16	0	9/8/16	0	10/6/16	0.5
7/15/16	0	8/12/16	0	9/9/16	0	10/7/16	0.95
7/16/16	0	8/13/16	0	9/10/16	0	10/8/16	0.31
7/17/16	0	8/14/16	0	9/11/16	0	10/9/16	1.75
7/18/16	0	8/15/16	0.01	9/12/16	0	10/10/16	0.21
7/19/16	0.01	8/16/16	0	9/13/16	0	10/11/16	0
7/20/16	0	8/17/16	0	9/14/16	0	10/12/16	0
7/21/16	0	8/18/16	0	9/15/16	0	10/13/16	1.62
7/22/16	0.01	8/19/16	0	9/16/16	0	10/14/16	2.8
7/23/16	0	8/20/16	0	9/17/16	0.49	10/15/16	1.17
7/24/16	0	8/21/16	0	9/18/16	0.45	10/16/16	1.96
7/25/16	0	8/22/16	0	9/19/16	0.1	10/17/16	0.65
7/26/16	0	8/23/16	0	9/20/16	0	10/18/16	0.6
7/27/16	0	8/24/16	0	9/21/16	0.25	10/19/16	0
7/28/16	0	8/25/16	0	9/22/16	0	10/20/16	2.1
7/29/16	0	8/26/16	0	9/23/16	0.1	10/21/16	0.25
7/30/16	0	8/27/16	0.01	9/24/16	0.34	10/22/16	0.15
7/31/16	0	8/28/16	0	9/25/16	0	10/23/16	0.28
8/1/16	0	8/29/16	0	9/26/16	0	10/24/16	0.08
8/2/16	0	8/30/16	0.01	9/27/16	0	10/25/16	0.2
8/3/16	0.05	8/31/16	0.42	9/28/16	0	10/26/16	0.45
8/4/16	0	9/1/16	0.05	9/29/16	0	10/27/16	0.55
8/5/16	0	9/2/16	0.8	9/30/16	0	10/28/16	0.3
8/6/16	0	9/3/16	0.17	10/1/16	0.03	10/29/16	0.12
8/7/16	0	9/4/16	0	10/2/16	0.73	10/30/16	0.12
8/8/16	0.3	9/5/16	0	10/3/16	0	10/31/16	0.69
8/9/16	0	9/6/16	0.87	10/4/16	0.15	11/1/16	0.45
8/10/16	0.01	9/7/16	0	10/5/16	1.3	11/2/16	0.28

## Precipitation data for Aberdeen, WA US Station, USC00450008

Date	Inches	Date	Inches	Date	Inches	Date	Inches
11/3/16	0.5	12/1/16	0.18	12/29/16	0.01	1/26/17	0
11/4/16	0	12/2/16	0.17	12/30/16	0.61	1/27/17	0
11/5/16	1.51	12/3/16	0.55	12/31/16	0	1/28/17	0
11/6/16	1.02	12/4/16	0.74	1/1/17	0.53	1/29/17	0
11/7/16	0.27	12/5/16	0.55	1/2/17	0	1/30/17	0.01
11/8/16	0	12/6/16	0.22	1/3/17	0	1/31/17	0
11/9/16	0.44	12/7/16	0	1/4/17	0	2/1/17	0
11/10/16	0.06	12/8/16	0	1/5/17	0	2/2/17	0
11/11/16	0	12/9/16	0.42	1/6/17	0	2/3/17	0.05
11/12/16	0.41	12/10/16	0.43	1/7/17	0	2/4/17	0.72
11/13/16	0.05	12/11/16	0.65	1/8/17	0.22	2/5/17	0.6
11/14/16	1.18	12/12/16	1.17	1/9/17	0.82	2/6/17	0.66
11/15/16	0.4	12/13/16	0.1	1/10/17	0.2	2/7/17	0.13
11/16/16	0.65	12/14/16	0	1/11/17	0	2/8/17	0.14
11/17/16	0.52	12/15/16	0	1/12/17	0	2/9/17	2.45
11/18/16	0	12/16/16	0	1/13/17	0	2/10/17	0.46
11/19/16	0.23	12/17/16	0	1/14/17	0	2/11/17	0.28
11/20/16	1.1	12/18/16	0	1/15/17	0	2/12/17	0.07
11/21/16	0.63	12/19/16	1.28	1/16/17	0	2/13/17	0
11/22/16	0.05	12/20/16	0.99	1/17/17	0.01	2/14/17	0
11/23/16	1.28	12/21/16	0	1/18/17	2.56	2/15/17	1.3
11/24/16	2.25	12/22/16	0.01	1/19/17	1.75	2/16/17	1.06
11/25/16	2.12	12/23/16	1.2	1/20/17	1.03	2/17/17	0.18
11/26/16	0.99	12/24/16	0.02	1/21/17	0.1	2/18/17	0
11/27/16	0.5	12/25/16	0.01	1/22/17	0.1	2/19/17	0.26
11/28/16	0.56	12/26/16	0	1/23/17	0.03	2/20/17	0.47
11/29/16	0.19	12/27/16	1.6	1/24/17	0	2/21/17	0.01
11/30/16	0.25	12/28/16	0.41	1/25/17	0	2/22/17	0.02

## Precipitation data for Aberdeen, WA US Station, USC00450008

Date	Inches	Date	Inches	Date	Inches	Date	Inches
2/23/17	0	3/23/17	0.18	4/20/17	0.46	5/18/17	0
2/24/17	0.08	3/24/17	0.52	4/21/17	0.15	5/19/17	0
2/25/17	0.02	3/25/17	0.7	4/22/17	0	5/20/17	0
2/26/17	0.75	3/26/17	0.25	4/23/17	0.56	5/21/17	0
2/27/17	0.03	3/27/17	0.6	4/24/17	1.1	5/22/17	0
2/28/17	0.2	3/28/17	0.75	4/25/17	0.12	5/23/17	0
3/1/17	0.23	3/29/17	1.78	4/26/17	0.46	5/24/17	0
3/2/17	0.08	3/30/17	0.4	4/27/17	0.11	5/25/17	0
3/3/17	1.32	3/31/17	0.01	4/28/17	0.01	5/26/17	0
3/4/17	0.59	4/1/17	0.09	4/29/17	0	5/27/17	0
3/5/17	0.43	4/2/17	0.01	4/30/17	0.51	5/28/17	0
3/6/17	0.8	4/3/17	0.01	5/1/17	0	5/29/17	0
3/7/17	0.5	4/4/17	0	5/2/17	0.18	5/30/17	0.06
3/8/17	0.52	4/5/17	0.92	5/3/17	0.38	5/31/17	0.02
3/9/17	0.42	4/6/17	0.38	5/4/17	0	6/1/17	0.14
3/10/17	1.5	4/7/17	0.49	5/5/17	0.12	6/2/17	0.03
3/11/17	0.23	4/8/17	0.99	5/6/17	0.12	6/3/17	0.09
3/12/17	0.53	4/9/17	0.06	5/7/17	0	6/4/17	0
3/13/17	0.65	4/10/17	0.15	5/8/17	0	6/5/17	0
3/14/17	2.07	4/11/17	0.48	5/9/17	0	6/6/17	0
3/15/17	0.44	4/12/17	0.78	5/10/17	0	6/7/17	0
3/16/17	0.33	4/13/17	0.21	5/11/17	0.54	6/8/17	0.27
3/17/17	0.11	4/14/17	0.46	5/12/17	0.58	6/9/17	0.19
3/18/17	2.83	4/15/17	0.17	5/13/17	0.43	6/10/17	0.15
3/19/17	0.09	4/16/17	0	5/14/17	0.13	6/11/17	0
3/20/17	0	4/17/17	0	5/15/17	0.34	6/12/17	0
3/21/17	0.21	4/18/17	0.87	5/16/17	1.16	6/13/17	0.05
3/22/17	0.59	4/19/17	0.14	5/17/17	0.15	6/14/17	0.02

## Precipitation data for Aberdeen, WA US Station, USC00450008

Date	Inches	Date	Inches	Date	Inches	Date	Inches
6/15/17	0.17	7/13/17	0.04	8/10/17	0	9/7/17	0
6/16/17	1.2	7/14/17	0	8/11/17	0	9/8/17	0.01
6/17/17	0	7/15/17	0	8/12/17	0	9/9/17	0
6/18/17	0.21	7/16/17	0	8/13/17	0.25	9/10/17	0.1
6/19/17	0.09	7/17/17	0	8/14/17	0	9/11/17	0.01
6/20/17	0	7/18/17	0	8/15/17	0	9/12/17	0
6/21/17	0.01	7/19/17	0	8/16/17	0	9/13/17	0
6/22/17	0	7/20/17	0.03	8/17/17	0	9/14/17	0
6/23/17	0	7/21/17	0.03	8/18/17	0	9/15/17	0
6/24/17	0	7/22/17	0	8/19/17	0	9/16/17	0
6/25/17	0	7/23/17	0	8/20/17	0	9/17/17	0
6/26/17	0	7/24/17	0	8/21/17	0	9/18/17	0.3
6/27/17	0	7/25/17	0	8/22/17	0	9/19/17	0.97
6/28/17	0	7/26/17	0	8/23/17	0	9/20/17	0.52
6/29/17	0	7/27/17	0	8/24/17	0	9/21/17	0
6/30/17	0	7/28/17	0	8/25/17	0	9/22/17	0
7/1/17	0	7/29/17	0	8/26/17	0	9/23/17	0
7/2/17	0	7/30/17	0	8/27/17	0	9/24/17	0
7/3/17	0	7/31/17	0	8/28/17	0	9/25/17	0.02
7/4/17	0	8/1/17	0	8/29/17	0	9/26/17	0.21
7/5/17	0	8/2/17	0	8/30/17	0.01	9/27/17	0
7/6/17	0	8/3/17	0	8/31/17	0.02	9/28/17	0
7/7/17	0	8/4/17	0	9/1/17	0	9/29/17	0.06
7/8/17	0	8/5/17	0	9/2/17	0	9/30/17	0.07
7/9/17	0	8/6/17	0	9/3/17	0	10/1/17	0.03
7/10/17	0	8/7/17	0	9/4/17	0	10/2/17	0.01
7/11/17	0	8/8/17	0	9/5/17	0	10/3/17	0
7/12/17	0	8/9/17	0	9/6/17	0	10/4/17	0

## Precipitation data for Aberdeen, WA US Station, USC00450008

Date	Inches	Date	Inches	Date	Inches	Date	Inches
10/5/17	0	11/2/17	0.35	11/30/17	0.25	12/28/17	0.23
10/6/17	0	11/3/17	0.36	12/1/17	0.16	12/29/17	2.29
10/7/17	0.12	11/4/17	0.05	12/2/17	1.13	12/30/17	1.55
10/8/17	0	11/5/17	0.48	12/3/17	0.54	12/31/17	0
10/9/17	0.01	11/6/17	0.04	12/4/17	0.01	1/1/18	0
10/10/17	0	11/7/17	0	12/5/17	0	1/2/18	0
10/11/17	0.13	11/8/17	0	12/6/17	0	1/3/18	0
10/12/17	0.39	11/9/17	0.72	12/7/17	0	1/4/18	0
10/13/17	0.13	11/10/17	0.26	12/8/17	0	1/5/18	0.63
10/14/17	0	11/11/17	0	12/9/17	0	1/6/18	0.25
10/15/17	0	11/12/17	1.1	12/10/17	0	1/7/18	0.06
10/16/17	0.01	11/13/17	2	12/11/17	0	1/8/18	0.74
10/17/17	0.21	11/14/17	2.26	12/12/17	0	1/9/18	0.11
10/18/17	0.45	11/15/17	2.2	12/13/17	0	1/10/18	0.02
10/19/17	2.53	11/16/17	0.7	12/14/17	0	1/11/18	1.14
10/20/17	0.95	11/17/17	0.46	12/15/17	0	1/12/18	1.45
10/21/17	0.79	11/18/17	0.12	12/16/17	0.06	1/13/18	0.45
10/22/17	2.6	11/19/17	0.01	12/17/17	0.24	1/14/18	0.01
10/23/17	0.27	11/20/17	2.08	12/18/17	0.82	1/15/18	0
10/24/17	0	11/21/17	0.56	12/19/17	1.84	1/16/18	0.02
10/25/17	0	11/22/17	2.05	12/20/17	0.72	1/17/18	0.05
10/26/17	0.15	11/23/17	1.45	12/21/17	0	1/18/18	1.32
10/27/17	0	11/24/17	0.57	12/22/17	0.1	1/19/18	1
10/28/17	0	11/25/17	0.2	12/23/17	0.18	1/20/18	0.84
10/29/17	0	11/26/17	1.32	12/24/17	0	1/21/18	0.95
10/30/17	0	11/27/17	0.69	12/25/17	0.3	1/22/18	0.57
10/31/17	0	11/28/17	0.06	12/26/17	0	1/23/18	0.25
11/1/17	0.01	11/29/17	0.59	12/27/17	0	1/24/18	2.09

## Precipitation data for Aberdeen, WA US Station, USC00450008

Date	Inches	Date	Inches	Date	Inches	Date	Inches
1/25/18	0.64	2/22/18	0.04	3/22/18	0.38	4/19/18	0
1/26/18	0.21	2/23/18	0	3/23/18	0.33	4/20/18	0
1/27/18	1.25	2/24/18	0.39	3/24/18	0.24	4/21/18	0
1/28/18	0.23	2/25/18	0.18	3/25/18	0	4/22/18	0.15
1/29/18	0.06	2/26/18	0.21	3/26/18	0.25	4/23/18	0
1/30/18	1.46	2/27/18	0.11	3/27/18	0.79	4/24/18	0
1/31/18	0.19	2/28/18	0.08	3/28/18	0.51	4/25/18	0
2/1/18	0.65	3/1/18	0.9	3/29/18	0.01	4/26/18	0
2/2/18	0.94	3/2/18	0.11	3/30/18	0.01	4/27/18	0
2/3/18	0.42	3/3/18	0.2	3/31/18	0.01	4/28/18	0.17
2/4/18	0.79	3/4/18	0	4/1/18	0.09	4/29/18	0.34
2/5/18	0.23	3/5/18	0.27	4/2/18	0.32	4/30/18	0.03
2/6/18	0.04	3/6/18	0.02	4/3/18	0.02	5/1/18	0
2/7/18	0.02	3/7/18	0	4/4/18	0.2	5/2/18	0
2/8/18	0.07	3/8/18	0.34	4/5/18	0.42	5/3/18	0
2/9/18	0.06	3/9/18	0.81	4/6/18	0.79	5/4/18	0
2/10/18	0	3/10/18	0	4/7/18	0.66	5/5/18	0
2/11/18	0	3/11/18	0	4/8/18	2.09	5/6/18	0
2/12/18	0	3/12/18	0.02	4/9/18	0.38	5/7/18	0.01
2/13/18	0	3/13/18	0	4/10/18	0.17	5/8/18	0
2/14/18	0.61	3/14/18	0.16	4/11/18	0.38	5/9/18	0.14
2/15/18	0.05	3/15/18	0.01	4/12/18	0.46	5/10/18	0.22
2/16/18	0.67	3/16/18	0.01	4/13/18	0.94	5/11/18	0.03
2/17/18	1.03	3/17/18	0	4/14/18	2.1	5/12/18	0
2/18/18	0.65	3/18/18	0.01	4/15/18	1.51	5/13/18	0
2/19/18	0.02	3/19/18	0	4/16/18	1.02	5/14/18	0
2/20/18	0.1	3/20/18	0	4/17/18	0.23	5/15/18	0
2/21/18	0.11	3/21/18	0	4/18/18	0	5/16/18	0.03

## Precipitation data for Aberdeen, WA US Station, USC00450008

Date	Inches	Date	Inches	Date	Inches	Date	Inches
5/17/18	0.06	6/14/18	0.18	7/12/18	0	8/9/18	0
5/18/18	0	6/15/18	0	7/13/18	0	8/10/18	0
5/19/18	0.01	6/16/18	0.03	7/14/18	0	8/11/18	0.04
5/20/18	0	6/17/18	0	7/15/18	0	8/12/18	0.06
5/21/18	0	6/18/18	0	7/16/18	0	8/13/18	0
5/22/18	0	6/19/18	0	7/17/18	0	8/14/18	0
5/23/18	0	6/20/18	0	7/18/18	0	8/15/18	0
5/24/18	0.01	6/21/18	0	7/19/18	0	8/16/18	0
5/25/18	0	6/22/18	0	7/20/18	0	8/17/18	0
5/26/18	0	6/23/18	0	7/21/18	0	8/18/18	0
5/27/18	0	6/24/18	0	7/22/18	0	8/19/18	0
5/28/18	0	6/25/18	0.12	7/23/18	0	8/20/18	0
5/29/18	0	6/26/18	0.01	7/24/18	0	8/21/18	0
5/30/18	0	6/27/18	0	7/25/18	0	8/22/18	0
5/31/18	0	6/28/18	0	7/26/18	0	8/23/18	0
6/1/18	0	6/29/18	0	7/27/18	0	8/24/18	0
6/2/18	0	6/30/18	0	7/28/18	0	8/25/18	0
6/3/18	0	7/1/18	0.15	7/29/18	0	8/26/18	0.02
6/4/18	0.11	7/2/18	0	7/30/18	0	8/27/18	0.07
6/5/18	0.01	7/3/18	0	7/31/18	0.01	8/28/18	0
6/6/18	0	7/4/18	0	8/1/18	0	8/29/18	0
6/7/18	0	7/5/18	0	8/2/18	0.03	8/30/18	0
6/8/18	0.03	7/6/18	0	8/3/18	0.21	8/31/18	0
6/9/18	0.53	7/7/18	0.01	8/4/18	0	9/1/18	0
6/10/18	0.19	7/8/18	0	8/5/18	0	9/2/18	0
6/11/18	0.04	7/9/18	0	8/6/18	0	9/3/18	0
6/12/18	0	7/10/18	0	8/7/18	0	9/4/18	0
6/13/18	0.18	7/11/18	0	8/8/18	0	9/5/18	0



## Precipitation data for Aberdeen, WA US Station, USC00450008

Date	Inches	Date	Inches	Date	Inches	Date	Inches
9/6/18	0	10/4/18	0	11/1/18	0.73	11/29/18	0.27
9/7/18	0	10/5/18	0.04	11/2/18	0.56	11/30/18	0.12
9/8/18	0.02	10/6/18	0.82	11/3/18	0.02	12/1/18	0.83
9/9/18	0	10/7/18	0.19	11/4/18	1.7	12/2/18	0
9/10/18	0.28	10/8/18	0.43	11/5/18	0.12	12/3/18	0
9/11/18	0.02	10/9/18	0.13	11/6/18	0.19	12/4/18	0
9/12/18	0.11	10/10/18	0	11/7/18	0.1	12/5/18	0
9/13/18	0.36	10/11/18	0	11/8/18	0.02	12/6/18	0
9/14/18	0.13	10/12/18	0	11/9/18	0	12/7/18	0
9/15/18	0.02	10/13/18	0	11/10/18	0	12/8/18	0
9/16/18	0.81	10/14/18	0	11/11/18	0	12/9/18	0.21
9/17/18	0	10/15/18	0	11/12/18	0	12/10/18	0.57
9/18/18	0	10/16/18	0	11/13/18	0	12/11/18	0.58
9/19/18	0	10/17/18	0	11/14/18	0.06	12/12/18	2.02
9/20/18	0.01	10/18/18	0	11/15/18	0.02	12/13/18	1.95
9/21/18	0.01	10/19/18	0	11/16/18	0.08	12/14/18	0.35
9/22/18	0.32	10/20/18	0	11/17/18	0	12/15/18	0.35
9/23/18	0.22	10/21/18	0	11/18/18	0	12/16/18	0.68
9/24/18	0	10/22/18	0	11/19/18	0	12/17/18	0.6
9/25/18	0	10/23/18	0	11/20/18	0	12/18/18	1.84
9/26/18	0	10/24/18	0.08	11/21/18	0.15	12/19/18	0.09
9/27/18	0	10/25/18	0.23	11/22/18	0.63	12/20/18	0.56
9/28/18	0	10/26/18	1.44	11/23/18	1.14	12/21/18	0.16
9/29/18	0	10/27/18	0.21	11/24/18	0.11	12/22/18	0.19
9/30/18	0.13	10/28/18	1.58	11/25/18	0	12/23/18	0.73
10/1/18	0.41	10/29/18	0.8	11/26/18	0.26	12/24/18	0.08
10/2/18	0.28	10/30/18	0.46	11/27/18	3.1	12/25/18	0
10/3/18	0.01	10/31/18	0.57	11/28/18	0.32	12/26/18	0.14

## Precipitation data for Aberdeen, WA US Station, USC00450008

Date	Inches	Date	Inches	Date	Inches	Date	Inches
12/27/18	0.44	1/24/19	0.03	2/21/19	0	3/21/19	0
12/28/18	0.18	1/25/19	0	2/22/19	0.05	3/22/19	0
12/29/18	2.37	1/26/19	0	2/23/19	0.5	3/23/19	0.08
12/30/18	1.18	1/27/19	0	2/24/19	0.29	3/24/19	0
12/31/18	0.02	1/28/19	0	2/25/19	0	3/25/19	0
1/1/19	0	1/29/19	0	2/26/19	0	3/26/19	0.38
1/2/19	0.01	1/30/19	0	2/27/19	0	3/27/19	0
1/3/19	0.78	1/31/19	0	2/28/19	0.08	3/28/19	0.16
1/4/19	1.19	2/1/19	0.26	3/1/19	0	3/29/19	0
1/5/19	0	2/2/19	0.51	3/2/19	0	3/30/19	0
1/6/19	0.7	2/3/19	0	3/3/19	0	3/31/19	0
1/7/19	0.82	2/4/19	0.01	3/4/19	0	4/1/19	0
1/8/19	0.23	2/5/19	0.01	3/5/19	0	4/2/19	0
1/9/19	0.47	2/6/19	0	3/6/19	0	4/3/19	0.14
1/10/19	0.91	2/7/19	0	3/7/19	0.4	4/4/19	0.02
1/11/19	0.05	2/8/19	0	3/8/19	0.3	4/5/19	0.05
1/12/19	0	2/9/19	0.39	3/9/19	0.01	4/6/19	0.82
1/13/19	0	2/10/19	0	3/10/19	0	4/7/19	0.41
1/14/19	0	2/11/19	0.31	3/11/19	0	4/8/19	0.05
1/15/19	0	2/12/19	1.64	3/12/19	0.55	4/9/19	0.13
1/16/19	0.01	2/13/19	0.35	3/13/19	0.14	4/10/19	0.05
1/17/19	0.34	2/14/19	0.05	3/14/19	0	4/11/19	0.87
1/18/19	0.82	2/15/19	0.58	3/15/19	0.01	4/12/19	0.2
1/19/19	1.8	2/16/19	0.07	3/16/19	0	4/13/19	0.08
1/20/19	0.18	2/17/19	0.04	3/17/19	0	4/14/19	0.47
1/21/19	0	2/18/19	0.01	3/18/19	0	4/15/19	0.26
1/22/19	0.16	2/19/19	0.1	3/19/19	0	4/16/19	0.1
1/23/19	1.82	2/20/19	0.63	3/20/19	0	4/17/19	0.25

## Precipitation data for Aberdeen, WA US Station, USC00450008

Date	Inches	Date	Inches	Date	Inches	Date	Inches
4/18/19	0.05	5/16/19	0.34	6/13/19	0	7/11/19	0.24
4/19/19	0.28	5/17/19	0.16	6/14/19	0	7/12/19	0
4/20/19	0	5/18/19	0.02	6/15/19	0	7/13/19	0
4/21/19	0	5/19/19	0.17	6/16/19	0	7/14/19	0
4/22/19	0	5/20/19	0.15	6/17/19	0	7/15/19	0.05
4/23/19	0.47	5/21/19	0.21	6/18/19	0	7/16/19	0.01
4/24/19	0.02	5/22/19	0.01	6/19/19	0	7/17/19	0.01
4/25/19	0	5/23/19	0	6/20/19	0.03	7/18/19	0.48
4/26/19	0	5/24/19	0	6/21/19	0	7/19/19	0
4/27/19	0	5/25/19	0.02	6/22/19	0	7/20/19	0
4/28/19	0	5/26/19	0.06	6/23/19	0	7/21/19	0
4/29/19	0	5/27/19	0	6/24/19	0	7/22/19	0
4/30/19	0	5/28/19	0	6/25/19	0	7/23/19	0
5/1/19	0	5/29/19	0	6/26/19	0	7/24/19	0
5/2/19	0	5/30/19	0	6/27/19	0.09	7/25/19	0
5/3/19	0	5/31/19	0	6/28/19	0.01	7/26/19	0
5/4/19	0	6/1/19	0	6/29/19	0	7/27/19	0.05
5/5/19	0	6/2/19	0	6/30/19	0	7/28/19	0
5/6/19	0	6/3/19	0	7/1/19	0	7/29/19	0
5/7/19	0	6/4/19	0	7/2/19	0	7/30/19	0
5/8/19	0	6/5/19	0	7/3/19	0.01	7/31/19	0
5/9/19	0	6/6/19	0.13	7/4/19	0	8/1/19	0
5/10/19	0	6/7/19	0.09	7/5/19	0.02	8/2/19	0.23
5/11/19	0	6/8/19	0.57	7/6/19	0	8/3/19	0
5/12/19	0	6/9/19	0	7/7/19	0.07	8/4/19	0
5/13/19	0	6/10/19	0	7/8/19	0.05	8/5/19	0
5/14/19	0.01	6/11/19	0	7/9/19	0	8/6/19	0
5/15/19	0.19	6/12/19	0	7/10/19	0.44	8/7/19	0

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Date	Inches	Date	Inches	Date	Inches	Date	Inches
8/8/19	0.01	9/5/19	0	10/3/19	0.15	10/31/19	0
8/9/19	0	9/6/19	0	10/4/19	0.19	11/1/19	0
8/10/19	0.08	9/7/19	0	10/5/19	0.09	11/2/19	0
8/11/19	0	9/8/19	0.04	10/6/19	0	11/3/19	0.04
8/12/19	0.01	9/9/19	0.21	10/7/19	0	11/4/19	0.01
8/13/19	0	9/10/19	0.08	10/8/19	0.41	11/5/19	0
8/14/19	0	9/11/19	0	10/9/19	0.05	11/6/19	0
8/15/19	0	9/12/19	0	10/10/19	0	11/7/19	0
8/16/19	0	9/13/19	0.73	10/11/19	0	11/8/19	0
8/17/19	0	9/14/19	0.04	10/12/19	0	11/9/19	0.29
8/18/19	0	9/15/19	0.81	10/13/19	0	11/10/19	0.29
8/19/19	0	9/16/19	0.44	10/14/19	0	11/11/19	0
8/20/19	0	9/17/19	0.37	10/15/19	0.01	11/12/19	0.29
8/21/19	0.64	9/18/19	0.4	10/16/19	0.58	11/13/19	0.16
8/22/19	0.25	9/19/19	0.01	10/17/19	0.9	11/14/19	0.01
8/23/19	0	9/20/19	0.01	10/18/19	0.3	11/15/19	0.37
8/24/19	0	9/21/19	0	10/19/19	1.26	11/16/19	0.07
8/25/19	0.04	9/22/19	0.19	10/20/19	0.39	11/17/19	0.94
8/26/19	0	9/23/19	0.25	10/21/19	0.18	11/18/19	0.19
8/27/19	0	9/24/19	0.19	10/22/19	1.4	11/19/19	0.61
8/28/19	0	9/25/19	0	10/23/19	0	11/20/19	0
8/29/19	0	9/26/19	0.27	10/24/19	0	11/21/19	0.01
8/30/19	0.04	9/27/19	0	10/25/19	0.01	11/22/19	0
8/31/19	0.01	9/28/19	0.25	10/26/19	0	11/23/19	0
9/1/19	0	9/29/19	0	10/27/19	0	11/24/19	0.25
9/2/19	0	9/30/19	0	10/28/19	0	11/25/19	0.15
9/3/19	0	10/1/19	0	10/29/19	0	11/26/19	0.01
9/4/19	0	10/2/19	0	10/30/19	0	11/27/19	0

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Date	Inches	Date	Inches	Date	Inches	Date	Inches
11/28/19	0	12/26/19	0	1/23/20	3.2	2/20/20	0
11/29/19	0	12/27/19	0.13	1/24/20	1.23	2/21/20	0
11/30/19	0.05	12/28/19	0.03	1/25/20	0.57	2/22/20	0.04
12/1/19	0.05	12/29/19	0.15	1/26/20	0.58	2/23/20	0.62
12/2/19	0.03	12/30/19	0.05	1/27/20	0.32	2/24/20	0.08
12/3/19	0	12/31/19	0.45	1/28/20	1.86	2/25/20	0
12/4/19	0.06	1/1/20	2.03	1/29/20	0.7	2/26/20	0
12/5/19	0.02	1/2/20	0.14	1/30/20	0.81	2/27/20	0
12/6/19	0	1/3/20	0.8	1/31/20	1.8	2/28/20	0.01
12/7/19	0.81	1/4/20	0.97	2/1/20	2.11	2/29/20	0.45
12/8/19	0.04	1/5/20	0.22	2/2/20	0.19	3/1/20	0.06
12/9/19	0	1/6/20	1.66	2/3/20	0.16	3/2/20	0.1
12/10/19	0.01	1/7/20	2.99	2/4/20	0	3/3/20	0.6
12/11/19	0.24	1/8/20	0.61	2/5/20	1.85	3/4/20	0.28
12/12/19	0.91	1/9/20	0.08	2/6/20	1.1	3/5/20	0
12/13/19	0.33	1/10/20	0.37	2/7/20	1.75	3/6/20	0.52
12/14/19	0.28	1/11/20	1.83	2/8/20	0.65	3/7/20	0.12
12/15/19	0.05	1/12/20	0.67	2/9/20	0.02	3/8/20	0.16
12/16/19	0.13	1/13/20	0.4	2/10/20	0.01	3/9/20	0
12/17/19	0.02	1/14/20	0.22	2/11/20	0	3/10/20	0
12/18/19	0	1/15/20	0.01	2/12/20	0.04	3/11/20	0.18
12/19/19	0.42	1/16/20	0.3	2/13/20	0.01	3/12/20	0
12/20/19	2.79	1/17/20	0.1	2/14/20	0.3	3/13/20	0.01
12/21/19	2.14	1/18/20	0.64	2/15/20	0.36	3/14/20	0
12/22/19	0.03	1/19/20	0.74	2/16/20	0.35	3/15/20	0
12/23/19	0	1/20/20	0.05	2/17/20	0.31	3/16/20	0
12/24/19	0.01	1/21/20	0.28	2/18/20	0.06	3/17/20	0
12/25/19	0.28	1/22/20	0.98	2/19/20	0	3/18/20	0

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Date	Inches	Date	Inches	Date	Inches	Date	Inches
3/19/20	0	4/16/20	0	5/14/20	0.2	6/11/20	0.01
3/20/20	0	4/17/20	0	5/15/20	0	6/12/20	0.3
3/21/20	0	4/18/20	0.02	5/16/20	0.2	6/13/20	0.05
3/22/20	0	4/19/20	0	5/17/20	0.68	6/14/20	0.29
3/23/20	0.21	4/20/20	0.02	5/18/20	0	6/15/20	0.38
3/24/20	0.61	4/21/20	0.01	5/19/20	0.02	6/16/20	0.26
3/25/20	0.05	4/22/20	0.1	5/20/20	0	6/17/20	0
3/26/20	0.04	4/23/20	0.52	5/21/20	0.1	6/18/20	0
3/27/20	0.12	4/24/20	0	5/22/20	0.17	6/19/20	0
3/28/20	0.18	4/25/20	0.51	5/23/20	0	6/20/20	0.1
3/29/20	1.16	4/26/20	0.12	5/24/20	0	6/21/20	0.03
3/30/20	0.65	4/27/20	0.47	5/25/20	0.16	6/22/20	0
3/31/20	0.4	4/28/20	0.01	5/26/20	0.08	6/23/20	0
4/1/20	0.46	4/29/20	0	5/27/20	0	6/24/20	0.01
4/2/20	0.1	4/30/20	0.14	5/28/20	0	6/25/20	0.01
4/3/20	0.02	5/1/20	0.1	5/29/20	0	6/26/20	0
4/4/20	0.01	5/2/20	0.14	5/30/20	0	6/27/20	0
4/5/20	0	5/3/20	0.61	5/31/20	0.09	6/28/20	0.02
4/6/20	0	5/4/20	0	6/1/20	0	6/29/20	0
4/7/20	0	5/5/20	0.06	6/2/20	0	6/30/20	0.01
4/8/20	0	5/6/20	0.35	6/3/20	0	7/1/20	0.02
4/9/20	0	5/7/20	0	6/4/20	0	7/4/20	
4/10/20	0	5/8/20	0	6/5/20	0	7/5/20	0
4/11/20	0	5/9/20	0	6/6/20	0.05	7/6/20	0
4/12/20	0	5/10/20	0	6/7/20	0.63	7/7/20	0.11
4/13/20	0	5/11/20	0	6/8/20	0.02	7/8/20	0.02
4/14/20	0	5/12/20	0.02	6/9/20	1.1	7/9/20	0.01
4/15/20	0.1	5/13/20	0.5	6/10/20	0.3	7/10/20	0

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Date	Inches	Date	Inches	Date	Inches	Date	Inches
7/12/20		8/12/20	0				
7/13/20	0	8/13/20	0				
7/14/20	0	8/14/20	0				
7/15/20	0	8/15/20	0				
7/16/20	0	8/16/20	0				
7/17/20	0	8/17/20	0				
7/18/20	0	8/18/20	0				
7/19/20	0	8/21/20					
7/20/20	0	8/22/20	0.27				
7/21/20	0	8/23/20	0				
7/24/20		8/24/20	0				
7/25/20	0	8/25/20	0				
7/26/20	0	8/26/20	0				
7/27/20	0	8/27/20	0				
7/28/20	0	8/28/20	0				
7/29/20	0						
7/31/20							
8/1/20	0						
8/2/20	0						
8/3/20	0.04						
8/4/20	0.01						
8/5/20	0						
8/6/20	0.03						
8/7/20	0						
8/8/20	0						
8/9/20	0						
8/10/20	0						
8/11/20	0						